THETIMES Higher Education SUPPLEMENT

ILEA bans cash help for out-county students

The Inner Loudon Eilucotlon Authority has benned its polytech-nics and colleges from offering financial old to students from out-

A confidential letter from the ILEA to one of the authority's five polytechnics lost menth confirmed that the further and higher education subcommittee had considered the issue but "did not feel able to agree that savings from current maintenance grants or polytochnic reservos should be used to remit fees for continuing out-county students".

nics and colleges from offering financial oid to students from outside the county boundaries.

Under the enthority's controversial ruling, which is expected to affect more than 1,600 self-supporting "out-county" arudents, collego directors and principals have been took that neither hurdship ollocations nor savings can be used to remit the fews of those in noed from outside Londoh.

A consideration are savings can be used to remit the fews of those in noed from outside Londoh.

A consideration and the responsibility of other local education outhorities.

Only full-time or sandwich structure within the ILEA are should be considered eligible for remission clongside self-financial the further ond higher education subcommittee hod considered the issue but "did not feel oble to agree that savings from current maintenance grants or polytoclanic reserves should be used to remit fees for continuing out-county students".

The authority hes cloimed that the outomatic rounission of oil but a 25 per cent locroses in fees for continuing out-county students on full-time advanced courses would result in a loss of its stance was revealed in a letter to polytechnies this summer which gave deatils of students eligible to apply for help from the ILEA's the lotter said that the lotter said that the summer's increase in tailon feet.

The lotter said that the subcommittee was eware of contents of the content of the The authority has clouded that the outomuric routsion of all but in 25 her cent locroose in fees for all self-linencing. "out-eminty" students on full-time advanced courses would result in a loss of income of £515,000. First nows of its stance was revealed in a letter to polyrechnies this summer which gave details of students eligible to upily for help from the ILEA's £200,000 bordship fund set up after the Government's increase in tuition feet.

Fircroft to

get new

More attend

principal by Magglo Richards The former principal of Fireroft College, Birmingham, closed down two years ago effer etudent unrest, has donounced that he does not intend to seek reeppointment.

A Government coomnittee of indury which lovestigated the Fireroft affoir in November, 1975, later recommended the dismissal of the principal, Mr Tony Cartield, and four mombors of the college steff. The Fireroft trustees decided to issue reduction, but agreed to the continued on playment of Mr Corfield as warden.

about the position of "out-county" students already on full-time odvanced churses with no award from their home authority or an uword which did not cover fees.

But it soid: "The sub-committee fools that outer force fine red."

glying corporate sintus to pulytech-ules and fixeling them from this type of local authority intervention."

Dolytechnics

There was a significant rise in the number of students actually a polytechnic pepper manufacture of students actually and and science. Provisional figures announced this weak reveal that numbers toos from 178,000 to 1976.

Although part of the Increase was diate to morgors between colleges of education and polytechnica, there was also a 5 per cent rise is entolinette on the number of the number of seconded.

The number of men and woman of the increase fell steeply. A dron of \$4,000 was recorded.

There was also a 2 per cent full in those attending other post-thine dult further education and polytechnica, there was negative education and polytechnica, there was also a 1 per cent full in those attending other post-thine dult further education of \$4,000 was recorded.

The number of an en and woman of the number of students in university Groats Committee was also a 2 per cent rise in the university of the students of Education and the surpression said the money was another full the students of Education and polytechnica, there was also a 2 per cent full in those attending other post-thine dult further education of the control of the students of the stude



is commemorated at an exhibition at Kingston Polytechnic starting in the New Year. It draws on nuteriol from the Bodielan Library, Oxford, and the Notional Portroit Gollery.

Universities need £50m more to cope with extra students

Lecturers inquiry in Scotland

Lecturers in Scottish college and education want an inquiry and further education in Scotland in the Government's decision to her open ull 10 teacher truining college. Representatives of the Association of Lecturers to Callege of Lecturers. Representatives of the Associan of Lecturers to Colleges of Edga thou in Scutland (ALCES) have bestouching MPs to support o privamembers' Bill promoted by Led Jumes Dunglos-Hamilton (C. Edga Dungh W), seeking to establish a inquiry into terriary education Scotland.

James Integlos-Hamilton (C. Estation). Secondary education is sufficiently with the certainty education is secondary education. Lord Durgles-Hamilton, backety the Mrs of oil parties, went the long before the Mrs of oil parties, went the long that the mean of the Mrs of oil parties, went the long that the mean of the The SSRC ancounced in the sunter it would establish a policy studies body, possibly similar to the American Brookings Ioathuta, provided private funds were available from badies such as the Ford Foundation to match the State's investment. Since then the SSRC's building hos been called into question by the existing independent policy bodies such as the Royal Influte of International Affairs and by reports of a shift in Ford's detest towards Europa and o with budy based in Brussels.

Stirring up a

was provided to the control of the cus in the income per student of the pert under the pert under the pert of an intervence of the income per student of the pert under the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under which the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert under the pert of the income per student of the pert of the income per student of the pert of the income per student of the pert of his now been and for the propening of the college, out at the first greening of the college, of the now severning body company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day company, first has also been emphasized that the estanding other partshine day that the estanding other partshine day and the partshine day of the estanding other partshine day of the estanding of the estanding other partshine day of the estanding of the estand

His annual report draws attention to some of the ways in which Dorham has changed during the past 25 years. Income has gone up 45 times, the value of anney as measured by the constance price ludex has fallen by a factor of 4.5, and the ectivity of the university, measured by student numbers, has increased by 3.66 times, oll since 1952.

Income 45 times greater than 25 years ago

Mr McGeorge Bundy- Britein must

While most of the country's vice-chancellors have been looking forward with grim foreboding in the year to come Sir Derman Christophorson, vice-chancellor of Durham University, but

This means that the income per student year has increased in real terms about 2.7 thues. Significantly, however, the student/stuff ratio, often regarded os a rough indication of the costs per student year, is nearly the same in 1977 as it was in 1952.

THE TIMES

So, in real torms, the average coat of coupleying a member of the neademic stuff has increased by about 53 per cent; for technical and circlest stoff by 120 per cent. However, the cost of administrative etalf has remained much the

No doubt, cooclades Sir Dermon, the tronds over the next 25 years will be very different. The universities will probably grow comparatirely slowly and the problem of finding runn for new developments will become serious. "It may be that the prospect is univ sufficiently clear for successing like a new strotegy to meet the new straining to energe."

London's union relationships to be studied

with trude unious following the controversy about the University of London Bill. The Bill received it second rending in the Cummons two weeks ago after the Association of University Teachers and withdrawits petition ognists it.

Union of Public Employees solid I was not happy about the state of industrial relutions within the university and would like to see review. The university undertook threstigate and the study group I the result.

There will be four university representatives: Professor N. F. Morris, deputy vice-charcellor of Charling Cross Medical School; Dr. J. N. Bleck, priocipel of Bedford College; Dr. Willion Taylor, director of the Institute of Education; and Mr. P. H. Rowley from administration.

The AUT, the NUPE, the National and Local Government Officers' Association, and the Association of Scientific, Technical and Managerial Staffs will each have a representa-

可能增加的影響

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December 30, 1977 No 321 SUPPLEMENT

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Maggie Richards

Tressure for a ban oo trade has come from the senete, which in July agreed to do all in its power to been defended by the head of the followersity in the senete of the colling and the contracting, open the coll breather of the Association of the followersity in the followersity is maintained and the first the followersity is maintained by the first and the first the followersity is maintained by the first the followersity is followersity in the followersity is followersity in the first the followersity is followersity in the followersity is followersity in the first the first the followersity is followersity in the first the first the followersity is followersity in the first the

by Owen Surridge

University course planning depart-nteors were severely criticized for ingensitivity to student needs during last week's conference of the Society for Research into Higher Education at the University of Surrey, Guid-

The charge was spelled out by Mr. Pric Robiuson, principal of Brou-ford College, who said that despite attempts to break with the imper-sonal burconcratic tradition of the new universities, deeper trends to deporsonalization were implicit in the growing use of new technology.

There is a widespread rendency were all alike", he said. "Planulug for the heterogeneous group is paor and where it is attempted, the aid is in oake everybody the same us quickly as possible.

"Course plans submitted to the CNAA talk almost universally of the student. Just what is meant by that is not oracle explicit but pre-similarly they have one model in

Mr Robinson said the fidlure to realize that students were different was a severe deficiency of course planners, who had for the most part shown little signs of recognizing the graving importante of students from averseas, the mature, women, containg class ar ethnic minorities.

"It is just not good canualt to expect them to conform to the conventional background", he said. "Psylatious from the mornt me will regarded as inconveniences rather than opportunities, to many sudears are getting an education that is not fixed for them. Many more are excluded altogether, either because they do not fit in or be-cause they do not wish to.

"We have to realize that the student who is now regarded as abarronal, is going to become more

Commenting on the hintis be-tween sixth form studies and univer-sities, he said: "It could be that education is schools would be better it was geared to the onlyeralties."

Alternatively, since people with neither CCE A level our experience of traditional sixth form studies, could be soccessful at university,
"it cauld he what much of traditional sixth form study could be
kicked owny".

If called for research to dis-

cover what was going on in schools and how universely students sorvived the courses placed for them. "Unless we check, it is very difficult to make any evaluation", he

Professor Lewis Elian, of Surrey Professor Lewis Elian, of Surrey University, countonting in the difficultion freshers found in adjusting to university life, only most were very uncertain of themselves; "they were at the up in the school setting. In their now setting which was strange to them, they were only overage. Half of them below average, maybe."

average, maybe.".

They needed some freedain but wall inced with accurity. To decever bow beat to help them fied their feet along the rond from dependence to independence and theire is interdependence, he had deviced the teaching the root of the second true to devised two teaching exportments, both small and set into traditional

degree caurses.
The first, designed to encourage independence, dispensed with the formal lecture and set the studenta to work at written projects on which they were tested so they felt ready. The mode was tightly structured but offered the froedom for students to organize their nwo work. Results showed that they spent more time in private study more

more time in private study, more regularly ned in shorter spells.

The professor admitted that the ourcome was tentative and difficult to understand, "but the results do show that students adapted their work pattern to the students desired that they received. That is, they were beginning to show signs of independence."

It is second experiment decirate.

Ilis second experiment, designed to encourage cooperation on a maye on the path to independence, wes based an a resource centre and posod problemo for solution through group projects. Most of those invalved oppreciated the cooperative aim and learnt to talk shoot their study difficulties more freely, something now done less among students.

others and reservations in thet much of the work often fell upon the minority. One student apposed enmpetition was more stimulating than conperation.

duction of mature students were trouched on by many speakers. Prominent among them was Dr Rudney MacDonald of Murdoch University, Australia, who, with his colleague Mrs Susan Kulglus, sald many of the assumptions commonly made about yourseleading and many that was a sumption of the assumptions distance.

made about young students slid not apply to the acture.

They were more independent, more able and willing to take resnonsibility for their near learning, ing to sections dealing with the more experienced in life and had a wider range of general knowledge, hoard of The College of St Mark a wider range of general knowledge, but, being aware of their own lack of specific knowledge, unded to worry more than the young stodent who, unaware of the depth of higher and to the policy of a two A-level and to the policy of a two A-level own ignorance, just skated blithely

aver thin ice.
Their difficulties stem, in part, from their virtues. Their strong sense of self-direction rould laid to determined closed-mindedness, to impatience with broadly based introductory courses and options autside the specialty they wished to study in depth.

For many of them the decision to take a university course had orthing to do with coreer prospects; histead it was aften precipitated by changed personal circumstances such as divorce, retirratent or a changed life style enforced by physical laundicup and stammed more from intellectual curio ity or personal interest in a subject.

In all this there were lessons for

staff designing courses. Staft should he more explicit along course reuirements and reading techniques. Mature students do not accessarily understand what is meant by "analyse" and the academic of writing can confuse them. ' and the acodemic style

Assumptions about the majure student's busic knowledge of a sub-ject were unwise, said br MacDouald "Staff should acquain themselves with the buckground at mature students, way more aften-tion to involcating the skills of tion to invulcating the skills of total calculation in the skills of total calculation in assignments to allow them in direct their learning to the maximum extent.

"Adult students tend to exhibit many of the qualities", he said, "we often cite as characteristics of the plant of the students of the st

ideal student; they are self-directing, hard-working, determined, questioning and unwilling in necapt second less. Maybe the challengu this presents to us as reachers explains why we sometimes find their presence just the alightest bit

uncomfortable."

Frum Dr Joint Gilbert of Surrey University, came a cult to pay mare and mare administrators in attention to die needs af science students, "Since there is an over sopply of places for the demand it is a good iden to prevent them dropping out if possible. Chillegas which take mu a student hove a moral obligation to help him get through."

fucreases in tuition fees meant that mare administrators in attentional league in terms of the proportional league in terms of the proportion of increases in tuition fees meant that university in the proportion of the proportion of increases in tuition fees meant that university in the proportion of the proportion of increases in tuition fees meant that university in the proportion of the proportion of the proportional league in terms of the proportion of increases in tuition fees meant that university in the proportion of the proportion of the proportion of increases in tuition fees meant that university in the proportion of the proport

through."
There was a ontion that the good student was a conton that the good student was occessarily the embryonic academic and the rest either lazy or recalcitrant; "Where that is true, the new student is lo fac a nasty shock. That could be evolded by looke discussion early in course hy toore discussing early in courses between teachers and students to

between teachers and students to see they gut the most out of it and to help the student in adjust to the academic world"; he seld.

Criticizing hauks af adviro an the art of studylog, Dr Gilbort said:

"They made depressing reading. There is always the implication that students are deficient in these akills—bot f haven't coticed that." He had noticed however that although hod noised however that although the books idonalised the akills reguired, they rarely offered prac-tical help.

Old biases could be reinforced

Higher chication is likely to he-come more based against the work-ing class, guls and choic minori-ties unless a positive and more sensitive approach to college of educa-tion diversification and entry pro-cedures is adopted.

This warning is continued in a report to Mrs Williams, Secretary of State for Education and science, on her rerent Green Paper, Educa-tion in Schools; A Consultative In some general comments relat-

entry, higher education in the future is likely to become more hissed to terms of class, sex and ethnic groups,"

y Maggie Richards

of new adult college

North", the new college at Went-worth Castle near Bornsley will be taking its first intake of students

nest Orrober. Mr. Burrati Brown, islay is at

present a senior lecturer in econ-omics and industrial studies in the

extra united department of Sheffield Doirersity, was involved with the

conking party which formulated proposals for the ago college. His appointment as principal has just

heen unnunneed.
The new college, which will be

The folginal proporal for a new uduly education college to serve the

porth of England came in the Russell report in 1973.

In his annual report Penfeasor Mottheira said that this was hoppening while vacencios for academic staff and teebulcal support were frazen.

The situation had arisen because 80 per cent af fees were paid aut af public mancy. The major effect af the icereases was simply to com-

plicate the accounting procedures through which the money found its

It was not the best woy for the public to gat volue for monoy.

Eorlier, Professor Matthews said ao long as oncertainties ebout puy

romained, there was no real sign! canea in the indications which tho Government had given on ite policy for universities.

and cootpensotiun

way to universities

Sheffield lecturer named head

A senior lecturer at Sheffield Uni-petsity, Mr Michael Burrott Brown,

aluration.

Administrators in money chase

Aware of the historic role of minimum of two A-level GCE passes for entry to 0Ed courses the authors say: "Our experience is that A levels do not predict teaching competence or final academic achievement".

"A policy of enforcing a two A-"

"A

exclusion of those groups whom the secretary of state particularly wishes to atroct; members of ellinic minorities and those with industrial exnerience."

The College of St Mark and St Julin already attracts a sizeable number of surli people, the report says, and on the whole they made conselentions students and excellent teachers. The academic board argued for a more flexible puttern of entry to teacher education which would allow colleges to use well Referring to the Green Paper's established exportance to select the rommitment to moving towards an established exportance to select the

At present Wentworth Casile i

Ercatually, neer a three-year period, the college will build up student numbers to a maximum of

120. Half of the places at the college

will be allocated to students on our or two-year considered in diplora-courses. The remainder will be reserved for singlears taking short

courses, normally of ten week

but it also intends to offer classe or community studies, involving sub-

jects such as head government, social gaugnaphy and planning,

Senior tour at the new college will be Mr Keith Jackson, senior

assistant director at Liverpaul Doi versity institute of extension studies.

The appointment of three other totals for the new college has not

a prime determinent to the detri-ment of research.

This was particularly important in areas which contributed to the notional role, in glass technology.

chemient engineering, fool techni

logy and metallorpy where puder-graduate numbers throughout the country had been low for some

Ha sold students and shown signs

hand in negotiations with the

onajur need in less priviles in the cuontry such as the South-West." Kent agrees to take over

economic position to prove the runs higher education at this

in time. This does not ment the only policy option oper to secretury of stoto is to come

encourage a narray delicies who is to enter legier sho

"The callege would strong to

port mayes to use resource be odd, in particular, coursesiands made available through nade

made available through made training cut-books to improve

taulties fo radol and seconder education. This is a page

recenty, Mr Michael Burrott Brown, is to become the first principal of a new adult education college in Yorkshire.

Lubbed the "Ruskin of the North", the new callege at Wontage in Special Court of the North ", the new callege at Wontage in Special Court of the North", the new callege at Wontage in Special Court of the North ", the new callege at Wontage in Special Court of the North ", the new callege at Wontage in Special Court of the North ", the new callege at Wontage in Special Court of the North C

come the validating authoris for the survey transport of the validating authoris for the survey of loady is the Atlanta eacounts of the livers of loady is the survey of loady of loady is the survey of loady The college will be offering cros-ltimal adult education courses of liberal arts and trade union studies.

There ore intready a number ways but which the university of the college collaborate but the strangestion is expected to greet according to the section of the college collaborate but the section of the college collaborate but the section of the college collaborate but the section of the college collaborate the extent of this definition of the college contrageness with the section of the college of college of college of college of college of the college of co

of realizing that militancy could unt produce maney from on ulmust empty bank account any more than it could strongthen the oniversity's Gnyernment.
In conclusion he said that Government had to decide whether it wanted mediocre higher education or n rejention of axcellence. Some

of keen rather than by the limit very conservation as a facilities.

The council of the University of the Twin Cities campus of the keen and the coverning body of the keeps of the council of the Coverning body of the keeps of the council of the Coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the coverning body of the keeps of the council of the council of the coverning body of the keeps of the council of the council of the coverning body of the keeps of the council of the c

tions are complementary in many the interest of their conspects, so that they can respect to personal to personal courses with the constant of their could provide courses with the could provide course with the could provide courses with the course could provide courses with the course cour

In his anoual report, Professor C. D. Sims, vice-chancellor of Shefonlycraities were already approaching the end of the bridge helween

required, they rarely offerod practical help.

Often this was the case with teachers also. Teachers should encourage and the development of aske library and but the development of aske library and the development of aske library and but the development of the sample were and asked that the development of the sample were the majority were, it is in the fell upout a deposed and that an approach the sample and the sample were the majority were, it is the sample

North American news

Cire Cookson on college efforts to reduce crime,

WASHINGTON job more effectively than an out-ges and universisside force because they are join of Sine rates in colleges and university side force because they are part of the university community.

The move to establish university are larged to the university community. and the reported crone going in the recognition of the midbe by up to 20 per cent in the the fluch publicized new genera-

enforcement officers on to cam-puses with inrecasing frequency. Academic commonities did not generally like what they saw of the birol police forces, so they had to lee auch responsible, conserva-pa of quiet, responsible, conserva-te, law-abiding studeous could get a lot to do with it. Bot purt create their own. Since then the trend has been for mediom-sized and large universities to look after as many of their own safety and security needs as possible, just like a town with tens of thousands of inhabitants. ist a lot to do with it. Dot purt the credit for chaking compuses for places must go to the millions to lines being spent on secority, and highly suphisticated electronic and computerized

Thus, in addition to 50 policemen, the University of Goorgia employs 50 officers dealing with others areas of poblic safety. They use a computerized surveillance system that includes gas sod fire detectors as well as electronic introder plants. imilication cards to creme prevention campaigns and strengthened source; and strengthened source; an Georgetown University in Manageon the installation of an Helptsensitive, invisibly-conted and the earliest of the installation of the ins well as electronic intruder niarms. and randalism. The system is based well as electronic intrince manner of selection in the 22,000 security operations on the 22,000 student composts about £1m a year.

All sudents ond university and the university says it would be

All students and university student campos is about the applyees from cleaners to professing doors, borrowing in the chief have books, gening into dialong the cratified college in Constant like and other requirements. The future are likely to know we cast, the George two security degrees validated by the United space is liked to a computerized of from rather than by the United state of the conservation system, with sity of Lombon.

The council of the United State of the Conservation of the council of the United State of the Conservation of the council of the United State of the Conservation of the council of the United State of the Conservation of the council of the United State of the Conservation of the Conservatio

There are already a number Studious missionaries ways by which the university is the callege collaborate but the starting property is accompanied by the starting property in the starting property is considered.

is Sim contribution to BYU-levali, the sudents of the chirties. Most of the chirties. Most of the chirties and the sudents of the students of the students of the students. It is the country of the students of the students of the students. It is the country of the students of the students of the students. The students of the students of the students of the students of the students. The students of the students of the students of the students of the students. The students of the students of the students of the students of the students. The students of the students of the students of the students of the students. The students was the students when the students of the students when t

'Something has to give'

Italy's higher education system is in chaos. Student

four youth, burst into the Rome University office of saciology dead, Professor Franco Ferracotti, early this year and ordered him to accomgany them to "a political trial." Aware that the phrase signified his own indicatement by a rodiral student jury. Professor Ferraruli declined the "invitation". He was savagely beaten up before underate students researed him from further purishment. It have before the purishment of the wicked may repunishment. They kicked me re-pencelly on the shins and in the groin. There was a professional nic

bout the way drey beat me," recalls.
Prufessor Ferrarotti soys mony o his colleagues in Rume University have suffered similar treatment. Unlike him, they are afraid in denounce the assaults. But across the cond the rector's office is guarded by bullet-proof windows. Security officers man the corridors and the rector drives on ormour

lutod car. Intimidation and physical attacks on staff members are no novelly of Italy's prercrowded "moss uni-versities". Academies like Professor Ferrarotti sce the riolence as puri of the sociological convolsions around them in which the profos oriate is seen as "supervisor" at a despised burenucratic systom impased by the establishment.
The radicalization of university

life is nowhere many transparent than of the Rome University which was built for a student population of 20,000 and naw harboars almost 200,000, it is not only the continu

real trie growth of a new radical concept in education.

Following socialist demonds to make higher education available in the broad masses (particularly the monts in the sixtles adapted measures which completely changed the composition and infrastructure of university life.

The first was the prayision of the

The first was the praysing of the most superal and the superal

tion led many professors to argue that the "mass university" could not serve the paramit of knowledge Professors were forced by their sindents to discuss retain subjects linked with current events. Faralties like sociology, political science and philosophy doubled their student

than compensates for the lowering of academic standards.

of academic standards.

Men like Professoc Giuseppe Schiavinato, rector of Milan University sioce 1972 (haly's second to make moiversity with largest "mass university" with 62,000 students), defends the new coucepi as " a positire factor". He says while the moss univer-

sity thes not prefend to provide the same level of education as a tra-ditional university. It gives a great mass of similants the opportunity to higher education and conse-

quently impraves the level of education in the country".

Professor Schiavinato says the mass university still provides cough graduates for the cultoral, scientific and productive needs of the country and that its current difficulties are no warse than those suffered by huge private and public institutions.
In the new mass university two

factors have uliconted the student-professor relationship. One is the stipend, field to the condition that the recipient most obtain on average 27 marks in examinations (aut of a the recipient most obtain on average 27 marks in examinations (aut of a possible 30).

"The student soes the professor who fails him as the representative of the student goes home."

assistant, are the horsical Especial post-gradiene assistantsi cho caro Elio a morth and contoutisti Icon tracted teachers) with a monthly salary of £150. Neither of these categories could survive without alternate employment, mainly in secundary education.

philosophy doubled their student population because they served as instruments for arming oneself in the struggle for socialization.

This desire for comprehension of a society-in-the-making is the rallying point of the supporters of mass education. They argue that it more than company to the desire to the faculty of £13,000 of the assistent income and the Landon of the assistent common.

This or instance and This onjust income structure and the gressures of an angry student population dependent on its stipend often result in the capitalation of

often result in the capitulation of the professorale.

"They just give everybody 30 marks and if you are really had they tell you to come back next mouth to take the examination ogain", one student said.

Reference to fail a student soil so deprive him of his stipend has led in the "eternal student" phenonenous where students studying for a four-year degree return.

phenomenon where sindents study-ing for a four-year degree return year after year until they have obtained the 20 compulsory exautaation passes required for most

degrees.

Since all examinations are neol and held in public, students can not only work out the kind of questions they are likely to be oslied when their torn comes but professors on advice students to professors can advise acudents to make another examination oppoint-ount if thele knowledge is insufficient. This way a student eac pru-long his university term indefin-

We apallgise to our readero for the fact that this space is blook because of the onofficial oction by members of the Society of Lithographic Artists, Designero, Engravers and

Rodical student vialence in Rome earlier this year.

of an ovil system. He foelo, often quita currectly, tint the professor lies not ottended to him during the yoar, has not been ovoilable and ond in any onfairly ponishing the student for his (the professor's) lack of canact. So the professor is beaten on the lost years have broken all records. Professor Fermanticant of the academic year. Lecture absence is add to be as high as 90 per cent.

Despite these professor is beaten broken all records. Professor Fermanticant of the academic year.

The second factor is directly linked with the first. Faced with an enormous student population end the additional task of revising and approving between 5,000 and 10,000 individual study place ench year, the professors have become horoaccrass. snowed down under a mountain of paperwork and no longer evaluable to their students.

to their students.

Professor Fetrurotti, who heads not foculty of 9,500 and personally taaches 1,500, admits: "I might see anly about 25 of my students throughout the ocademic year, and that shoply bacause they live need that shoply bacause they live need that shoply bacause they live need to or I am friendly with deliferables. It is penotism, but there is no other way. There is no their way. There is no their way. The assembly line version of a university has prompted some frustrated students to voice their discontent with a slogan on n wall at Rome University which says:

monts ovar the loat years have brokan all records. Professor Ferrarotti sayo: "They go there because they bove nothing clae to do, because they want to improve their sociol statos and, orost important, because the laureo has a logal value. It entitles you to opociol treatment. If you go into ludustry as a lnaceata you become immediately a white-collar worker series 'B' with e chance to make series 'A' in a vary short tima (there are series A. B

'Indiscipline' disputes mask deeper malaise

a week-long strike carlier this for further training.

trivial incident. A student unbut-toned the collar of his military unite duting the annual dance of the Ecole. He was punished by 30 thus's confined to quarters for being "undressed". In quarters for being

The Ecole Polptechaique is run by the Ministry of National Defonce. It is effectively a military establishment. Students are carried on the armed services list of officers in reserve during their training, which lasts three years. Their education is reckaned to east the state around 300,000 frames (£35,000) per head.

Although few of the students will enter the armed services' tochnical governing body. responsibility and the dny-to-day running of *Polytechnique* is in the lands of a sorving general, M. Jenn-Nool Augier, Director of the school.

Military discipline has often been on area of conflict between students and authorities. Students have argued that, since the overwhelming majority of them will an langer onter the armed sorrices, its continuation is an historical anachron-

Sinco 1968, disciplinary problems have been o regular subject of

COURSES

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Individual Instruction by highly qualified tutors.

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1 J-lephone (9865) 54231
CARSofting ALS, pan.)

PARIS discontent. Fullowing the May Students at the Feole Polytechnique, the most prestigious of France's higher chication institutes, singed with heing sent hack to the unity

In 1971 a student was confined in quarters for 15 days because his

"undressed",

It is not the first time that such minar episodes have brought about a confrontulon between students and administrative staff over unatters of promod during the past year. Taken together, they point to a control long-term melaise at Polymouther. The high-collered jacket buttning under the chin is another. They are not designed for The uniform, like the discipline comfort.

From 1973 the protests have assumed a more "political" character. A student representative

governing hady, nique, il The move of Polytechaique from ranging,

We applied to our readers for the fact that this space is blank because of the modificial action by members of the Saciety of Lithographic Artists, Hesigners, Engravers and Pruress Wurkers.

Polytechnique ceremonia

at Pulniscan to the south of the city brought only temporary resuite character. A student representative in the governing hourd of the school, Daniel Schutzer, was given and administration. The "pirate assembly" close arrest. He had apparently "kunwingly distorted" the account of ceriain eniversations held during the meeting of the governing body.

In May 1975 students were found to be distributing tracts in the working-class areas of Vincennes, protesting against the regolation that requires: them to complete military service before entering Polytechnique.

This last year six students were found to the distributing tracts in the working-class areas of Vincennes, protesting against the regolation that requires them to complete military service before entering Polytechnique.

Polytechnique.

This last year six students were given a suspended sentence of 15 days for an article that appeared in the house journal. They had questioned some of the reforms in the roorse structure suggested by the governing hold.

The move of Polytechnique from

New coalition unlikely to bring much comfort to campuses Don's diary

from Lynn George

Holland

AMSTERDAM Dr Ario Pals, a Liberal mat University, has succeeded Dr Jos van Kemenade us Education Miniser la Holland's centre-right coali-

tiun government.
Dr Pnis describes himself us "left" in o social and cultural sense, and "right" in flauncial and

economic terms.

With the foor that education may well have to socrifice millions of guildors to holp meet the expected severo economic cots of the new government, the financial hard line taken against the oniversities aver the past four years is expected to get worse.

Ir la doubtfol whether the new

government will take a softer line than the previous socialist-led coolition concerning plans to limit university courses to fuur years. But with the universities stubblenly ofusing to whittle down their mini mum seven-year cnurses, the new ducetion Minister can expect a iond-on confrontation with them in the mouths ulicad.

South Africa

Urban blacks can study nearer 'home'

The Coloured University of the Western Cape is to open its doors to African students for the first time next year. It will thus become the first major higher education centre for urban blacks in the Cape

province.

The decision will in many cases mean a 4d par cent drop in inition fees for urban black students who fees for urhan black students who will no longer need to travel the long distances to "ctlinic" universities in the black humelands.

The 19-point education grandme of the new governor ill-defined. Higher education

oren touched open education a creen touched open even thought open even thought one of the most preside a least faring the universides of crowding, with the subsequent lem of how to limit student of Ger Klein, forener-light in curion Secretory, introduced, pursue, selection procedure.

I cardian Secretory, introduced; a gauret from the United States, the paracy selection procedure non-substribed faculties based or makes the tenure system in troversial tweighted lotters have a merica like?

The new government between the part the question arises from the drop this and to introduce the lessing of solidarity; must of you tion on the basis of processing of solidarity; must of you tion on the basis of processing of solidarity; must of you tion on the basis of processing of solidarity; must of you tion on the basis of processing of solidarity; must of you tion on the basis of processing of solidarity; must of you tion on the basis of processing of solidarity; must of you tion to the heart (vagoely) that the safety provoking, and you want to make the safety provoking, and you want to the safety of the safety of your sense that the safety is a safety provoking and support.

The new governments must inwards Dr van Kemessels on irriversial proposal to work was one unified system of bigue the

the unforeseen consequences most ulso he considered, the emotional simile, the diversion of energies unid displacement of priorities, the fear and the corruption that set in.

Examples to illustrate all fills haves und to tonner, that I mention in this runnexion is Many of you sense that the

To begin with, the passing of one unified system of higher than the tion is also extremely caution. Many of you sense that the tion is also extremely caution is also extremely caution as it does, oxplicit standers are the views of it; dude, proredural safeguards, and decessor. A new financing that disease responsibility, may have has olreedy been introduced at the smelling to contribute to a current, liament by Dr Klein. The green specified to contribute to a current, liament by Dr Klein. The green specified to contribute to a current, liament by Riving one but such products and provided and the provided an

Mexico

mouths and months. There is the gathering of evidence, consultations, committee assessments, an initial report, the meeting of a review com-mittee, further reports. These are reviewed still further by a univer-sity-wide committee to assure com-parability—another month or two gardens.

and of introducing formal proceduring, which is railfied by the dares, explicit criteria, a variety of safeguants, and shared responsibility for tenure decisions have been far-reaching and hare, ironically, and words, naiversity words. It is also been far-reaching and hare, ironically, harmed the university in the same as before.

The fleat then makes his cashing which is railfied by the higher up, and still another month clapses. Then the whole prorest starts over as an appeal is launched. Two months lates the answer is really, harmed the university in the same as before.

The anger sets to make this railfied by the higher up, and still another month or gen past.

The hean then makes his cisinn, which is railfied by the higher up, and still another month or gen past.

The hean then makes his cisinn, which is railfied by the higher up, and still another month clapses. Then the whole prorest starts over as an appeal is launched. Two months lates the answer is really, harmed the university in as before.

The anger sets to make this cisinn, which is railfied by the higher up, and still another month clapses. Then the whole prorest starts over as an appeal is launched. Two months lates the answer is really, harmed the university in as before.

The anger sets to make this railfied by the higher up, and still another up and still another up and the prorest starts over as an appeal is launched. Two months lates the same and the proved and the p

Jones still has another year the department. He is hum, feels rejected, and is worried about his future. At the same time, his

Jones may well feel resentment of the university for treating blue "shabbily, unfairly" or hawever he perceives it; he most likely will

Under this set of conditions, he !: in taka part in university decision or administration.

Fur it year at least, he is an unt-cast; the other members of the dep-artment are hoth embarrassed and sanctionless; little can be expected of Jones except that he meet his

Is there any reality behind the rhetoric?

what rail he dolle. Everyane necumes upset, distracted, onable to concentrate on reaching, let alone research. A palarization begins to set in: the department is now divided into the "senior" members, and the "junior" members, the haves and thee into the senior with respect

very presence is a source of roncern for his colleagues.

be angry with collengues whom he suspects (and often knows) have "betrayed" him

Possibilities

Pairness, procedural rationality, shared respansibility, acudenic experience—these are all warth working far. Yet in the system of conura I have described, the costs oro enormous and the foct that they were almost all unforeseen and uninten-

Having said this, I nevertheless ba-Having said this, I nevertheless ba-they that a system of tentire is nec-essary and that we should expect universities to impose high stand-avds. The mistukes that have been avis. The mistakes that have been made and the problems that hove ensued came largely from mistekes about means rather than onds. One can never eliminate the costs of tenure, but I think it is possible to reduce them substantially, to the benefit of the individual, the depactment, and the university as a whole.

Part of what is required is simply fer greater cars in rocruitment. In-stead of spending a few hours with a candidate, it may be nocessary to spend a few days, but it is timo well spent in the long run.

Many of the most serious problont (minocity veto; moltipla, con-flicting recommondations; confron-mtions; divorsion from toaching and research) ariao, however, from the desire for departmentel domocracy.

But hore, since one is not operetlng in feet on majority rule, but on a basis of minority vate, what seems to be the relevant democratic element is that one be coasulted seriously (not parfunctorily as in Britain today) end have oac's views and accuments taken late accuments. and arguments taken into account.
The recommandation should come

why you are not supporting him. You lie, you say that you are on his side, that sumeone has simply got the facts wrong. And you, yourself, having seen your colleagues at closo rango, hegin, in meny instances, to think less of them.

Jones is given a copy of the entero leagues think shouthim. Even if the recommendation is to be relied upon, it must be based on a rigorous and systematic collection and shifting of evidence. Ways must be found, for example, to evaluate using student, evaluations of leagues think shouthim. Even if the department recommendation is to be relied upon, it must be based on a rigorous and systematic collection and shifting of evidence. Ways must be found, for example, to evaluate using student, evaluations of eaching or actually seeing a person teaching of actually seeing a person teaching o Intes is given a copy of the enteror report, he now knows what his collectives think ebout him. Even if the department recommends him, the reports are thorough—thay lay bare all the strengths and all the weak nesses and, as Nietzsche would anticipate, sometimos coofuse tha two. It isn't pretty reading.

the second secon



James Porter

is a time to pursue not curious addiction to warm sherty and then on leave our colleges for the contrasting environment of the home and hearth at Christmustime. It is also quite naturally a time to reflect on the angles of the contrasting at time to reflect on the angles and to account

d alend.

In my previous columns I have tried a consider issues which divido os m, on the other hand, are manters about which we agree but about which no effective action is taken. The overall attempt of the higher education is taken. The overall attempt of the higher education is taken. The overall attempt of the higher education is taken. The overall attempt of the higher education is taken. The overall attempt of the higher education is part that is mandatory is more valuable and worthy of amport than the columns has been to expuse some of the reality behind the rhetaric.

Thus, as this time last year I had recently returned from an early colebration of Christmes in Finland and subjects, le to the content of higher education, but also to styles of teaching. Full-time courses of advanced level are in; port-time caurses of ony level ore largely out.

Also, there is on almost total omphasis upon the 18 plus age group. The size of the la plus conting the part in terms of higher education in the part that is mandatory is more valuable and worthy of amport than the one which is discretionary.

This relates directoly to corses and subjects, le to the content of higher education, but also to styles of teaching. Full-time courses of allowing discretion in one part of the higher education in one part that is mandatory is more valuable and worthy of amport than the one which is discretionary.

This relates directoly to corses and subjects, le to the content of higher education, but also to styles of teaching. Full-time courses of allowing discretion in one part that is mandatory in more valuable and worthy of amport than the one which is discretionary.

This relates directoly to corses and subjects, le to the content of higher education, but also to styles of teaching. Full-time courses of allowing discretion in one part that is mandatory in more valuable and worthy of amport than the columns, the effects of allowing discretion in one part that is mandatory in more valuable and worthy of amport than the columns, the fi

dialngue.
There soems little doubt that the strategy of concentration will be dovoloped over the next few years, melniy as a result of octivities of validating hodies and loyels of epplication from students. Some of the colleges themselves, although certainly not establishing a group of community colleges, ere scheduled for offective oducational use, including a college that hos

Lion of teachers.

Looking back in nuger on the sad record of in-service advection. I argued earlier in the year that it would be herd to find a more evocative exemple of the golf between intention and ection.

modestly sponsored by the Robbins diction that higher education should be available for all those who are qualified by ability and wish to por-

Many would say that the country had already gate well beyond the earlier implications of the Robbins Committee. That indeed seemed to be the position at the hegitating of this decode.

However, the truth in 1977 is chillingly different: it is clear that the likelihood of children from middle-class homes going into higher education is still three times as great as for children bonn to working-rlass families.

The current economic trends are likely in intensify this disparity. Also the types of courses which have flourished in recent years tend largely to be within the conventional disciplines of the 1940s and 1950s.

Thus, for example, the support for students who wish to pursue courses in the arts and for the institutions that wish to provide them is particularly vulnerable at this time of economic austerity.

There is an ple evidence in show that students wishing in pursue courses in firbly such as music and drama, are and dance, find it much more difficult to get support and to find suitable institutions than in the more of support and to find suitable institutions than is the case of students who wish to pursue English or history, theology

On the other hand, it is difficult to find any official standard which indicates that, in fact, the creative and practising arts are regarded as inferior as areas at study and experience in history and chasics. The regulator which underlines these interests the contract of the contract

cnurses of ony level ore largely out.

Also, there is on almost total omphasis upon the 18 plus age group. The size of the 18 plus co-hort is regarded as the critical data in terms of higher education and planning. There is much interest but little oction in relation to the vast numbers of initially qualified students who miss the oducutional bus at 18 plus and are still unable to profit from bigher oducation.

The recent report of the Oakes

The rocent report of the Oakes Committee, while, as indicated earlier, ir may have same boueficial offects, is likely to be more concerned with stotus and nower—that.

cerned with stotus and provor—that is the states of institutions and the power balance between local and centrol government.

There is still a fundamental disregard of the 85 per cent of the population who, whether or not they are qualified, willing or participating, will certainly not be encouraged or assisted to participate in the or assisted to participate in the post-school educational revolution.

been acquired by the TUC.

It is probable that very little more can be done in view of the fact that some colleges ero undealth in inacceasible areas or ones in which there is already overprovision of student places.

Apart from the rationalization of initial teacher training, another theme of the year has been the struggle to realize some of the protestotions about in-service education of teachers.

Looking back in nuger on the sad record of in-service adpection, I argued earlier in the year that it would be herd to find a more evocation who has got bia two or

argued earlier in the year that it would be herd to find a more evecative exemple of the golf between the exemple of the golf between the little hape to offer. Perhaps in the new year the establishment of a new national the prison to get an even larger.

stablishment of a new committee for allynneod further squeation will enoble a notioned plan to be realized of last.

What, huwever, will be important for the new committee is thet it should be given edvice by the DES

ROTICE BOARD

Protessor John J. T. Owen, professor and head of the department of anatomy at Newcastla University, has been appointed to the Sonds Cox Chair of Anatomy and headship of the department of suatomy in the University of Birmingham to auccession to Professor John T. Eyars who retired earlier the year. Ha takes up his new post on April 1, 1978.

Dr J. R. Webster, professor of education at the University College of Males, appointed to the chair of education at the University College of Wales, Aberystvyth, to succession to the late Professor Jac L. Williame, who died last May. Universities Cambridge University Career Scrvice t Joh Gantmeit.

Lancaster Lancaster

Professor emeritos: Professor F. II.
Lawson. Lecturers: R. L. Allwright
(linguistics and madern English language); Sosan D. Clayinn and P. F.
Joyce (social admiolistration); A. P.
Isaward last and environment); S. M.
Lash and R. D. Pean (sociology); Dr
J. A. Self (commuter studies); P. A.
Taylor (accounting and finance); S. J.
Faylor (operadonal research); Bally
fomilioson (oducational research); D.
Ruth D. Whitehouse (classics &
archeology).

last May.

A new cheir of international banking is to be established in the dopartment of accountancy and finance at Heriot-Watt University, Edinburgh, which will be funded by the Bank of Scotland, the Royni Bank of Scotland, the Royni Bank. Landon

Director of University Computer Centra: Dr Zacharov, Public Orator Professor Joho P. Barron.

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courses on CBE O and A level topics, Titlee ore available in the following subjects: English, modern languages, history, sociology, moral education blology, mothematics, chemistry and physics. Prices from 56 to 510. Details of the new library foan schema in the new 197E Studytapes Catalogue freo from EP at Bradford Road, East Ardsley, Wakerfield, West Yorkskiro. Journal of Sources in Educational History a new publication in microfiche form alms to provido a basic original aborce material for students and teachers of oducotional history. (Available from Carfak, Fublishing Co, Haddon House, Dorchester on Thames, Daford Ox9 8 JZ, annual subscription 512.)

Grants and

The Queen's, Belfast Colliniter science—E20,000 from the SRC for research on appliforion orientated languages, under the direction of Dr J. Welsh and Mr McKeag. Faculty of medicine—E10,000 under the will of the late Miss Nino L. E. Cartoll for research beneficial to homilcapped children, the hequest to ba known os "Tho Cartoll Trust".

Cardiff, University College

Cardiff, University College
Bolany—Dr J. A. Bryant £17,353 from
the SRC for research on nurleic acid
and protein metabolism during breakaga
of dormancy in acar plantanoidea; Dr
J. A. Bryant £15,140 from the SRC for
research on the function of stored
MRNA in the garndnation of pea
fpisum sativum); Dr J. A. Bryant
£11,655 from the ARC for research on
nurleic arid metabolism during pretreatment of tomato seeds.
Electrical and electronic engineering—.

reatment of tomato seeds.

Electrical and electronic engineering—
Professor J. E. Thompson and Dr A. J.

Moses £11,200 from the SRC for a
basic lavestigation of a novel coating
process to improve magnetic properties
of metallic alloys; Dr A. J. Collins
£57,250 from the Dopartment of
Industry for work on magnetoresistive
heads.

Professor A. H. Russ--£13,408 from the SRC for research into growth at the yeast cell cavetope; for R. M. Cooper-£12,383 from the ARC for # Cooper—C12.383 front the ARC for a project on the role of cell wall decreating enzymes in vascidar with decrease; Dr. G. Hoard—C10,500 from Unilevee lab for research on authorizoblad defence on egg white; Dr. R. Harrison—E10,201 from the SRC for research on structure and authorizing of the carpubylisate of the milk fat globule mentions alternated.

carpulydrate of the fullk fal globule membrano glyroprolein.
Enginearing — Professor Wallace — £81,500 from the Department of Industry and Holsat Engineering. To far research into the development of advanced furba chargers for transpart diesel engines; £10,000 from British Brown Boverl Ltd in carry out Complex furbocharging comparison tests.

tests,

Social Selences—Dr R. A. Buchanan—
E37,334 from the Department of Environment for a national survey of Industrial manuagents; Professor C. T. Saudford—£11,198 from the SSRC for research into compliance rusts of value saded tax in the UK plint survey. School of Materials Science—Pr V. D. School of Materials Science—Pr V. D. School of a scanning offaction and gonlometer stuge.

gonlometer stuge. Hull

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nue-day sentiant at the North Engle-day Polytechnic, an January 12, 42 thraw logether the principal segment on the proposition that the realised after death. Further information from littlan Winstone, press office, NELL Routing Road, Lindon Eis 412.

Routlord Road, Lindon Els 41.4.

Illology and Scriety, a scries of letter and discussion introducing major deep inputants in biology relayed to contemporary surjety, will be held ever in Thursdov evening from Jaouary 1911.

March 9 at the Polytechnic of Center London. "Inside the Tutor of fourth national personal intorthe and introducing the second of Center London fis Polytechnic of Central Landon fis March 30-31, it is intended to give interest on opportudity to experiment of the contemporary of their needs, aithodes and personal their needs, aithodes and personal their needs, aithodes and personal contemporary of their needs. All the intended to give their needs, aithodes and personal their needs, aithodes and personal their needs. All their needs aithodes and personal their needs, aithodes and personal their needs. All the contemporary in the obscilient of the contemporary in the cont

OU programmes Thursday January 5

nacin 3 (VHF)
18.30 A Should to Ga.
19.30 A Should to Ga.
19.10 II. Announcement study to Est
19.10 He pre-thool child: taking to Est
19.10 He pre-thool child: taking to Est
19.10 He pre-thool child: taking to Est

MODERN HUMANITIES.

RESEARCH ASSOCIATION PRESIDENTIAL ADDRESS The President of the Association Professor Longard W. Forster, and deliver the Presidential Address of "Literary Smdles as Flight State Literature?" on Friday, Jenual G. 1973, at 5 pm, in the College Tuck Theetre, University College Gower Street, London WCl. in mission free without ocket. It wilcome.

la most cases, however, one taus

streed on various committees, this will be in one's fovour, but it is seedally not regolized. In other words, the level of achievement at is necessary, nor the whole, fur months to senior lecturer in italia is in America necessary supply for reculion.

The range of continuous in which

The range of octivities in which we must be, if not distinguished, a least obove avorage, is in fact state than that required for promise in Britain. As a result, about the person in four, even if recondeded by the department, can now that to be decided tenure.

Moreover, in many animons is a

Everyone is pledged to socrocy what the discussions, but, of course, the incuntiation will always be with os. They rush out (1 suppose it gives them a sense of power and importance) to tall Jones all thethas transpired. The next morning lance appears at your door and asks Thursday damnary

use 2

17.35 Cheen Forum: 0.08.4. Today and
18.05 Temperature of the first persons will never come up to first year of the first contracts for three to five to first contracts for three to five series on however, is not simple, naon 3 (very first we years of teaching experience, is at the end of one's academic

for those denled tenure, the inco of finding another university is even less likely. It is on aggeration, but only a mild one, say that in an American university on accordance on he ly en academic career can he

Agonies

consequences of moking the male.) andards for tenure more rigorous

Who assesses the lecturer

Jones appears at your door end asks

We naulogiso to our conders for the fuel that this space is blank because af the mosfilelal action by accubers of the Society of Lithographic Artists, Designers, Engravers and Present Walkers. sayona agrees, and maining neres, and it is a perform effectively us a gracity member, (2) capacity as a gacher, (1) contributions to cholomatip, and (-1) responsible participation in noircestry and departmental governance phasically doministration and correlation of the correlation and contribution and correlation of the correlation and contribution and correlation and correlation and contribution and correlation and contribution and correlation and contribution and correlation and contribution and contributions are contributed as a contribution and contributions are contributed as a contribution and contribution a Process Warkers.

foress a doctorate, be a gotul tea-ther, and have published no article t two lat least). If nue has also unied out effectively a number of iminiurative assignments and great arrest and erved on various committees, this

Descriptions

The period of probation for a uni-rectify lecturer in Hritain is ordi-arily three years, in the United States it is six. In the sixth year, a deciden must be made either to retain a-person, in which case he will have a lifetime position with the university, ar deny him teame, in which case he will be allowed to lay on an additional year.

The stondards by which he will be crabated will usually include to lollowing: (1) passession of publications of the crabated will usually include the following: (1) passession of publications of the crabated will be created the crabated will be considered to the crabated the crabated to the crabated t

al degrees and acoming neres

But surely it is objective? Woll, nor wholly, not really. "If they want in find e reason to get you, they will." That's the fore, (it may also be thet if you are black or a also be thet if you are black or tenure are woman your chemices for tenure are the College of William and Mary, woman your chemices for tenure are white or better then if you are white or lecturer in politics at Glusgow lecturer in politics.

The process stretches on for University.

in no mood for teoching (what can they do to me, anyway he may ask himself), sees no need to do any research, and isn't likely to be asked ahend.

legas.

During the year, in fact, the railonalization did on the whole toni to entreutrate training in major institutions, although a cortain number of colleges were "saced," by various mouse during the latter part of the D.E.S./cnllogo

use, including a chilego that hos been acquired by the TUC.

What, huwever, will be important for the new committee is thet it should be given odvice by the DES that in-service troining should be designated as part of "advanced further education" so that the nacessary finance can be committed at national level and actually used for that purpose in the colleges.

Thus, while teacher education remeland a central issue in the roal education debete, two other issues were raised which egain underline the contrast batween the great education of interesting the receity which underlines the slogen under which the total the relity which underlines the slogen under which the sour, Conservative and Liberals all march: the slogen of "equal opportion of the state of the problems is the fact that we have failed to go beyond the bland dilism of Robbins and, while concentrating on lostitutions in recent years, hove failed in reconsider that financing of the students who will be supposedly profiting from post-school education.

Even the cophoric induced by a strong dose of Christmas choor is unlikely to see such a transformation es a jub for the New Yeor. On the other hand, it might be worthwhile thinking of the 1980s as the decade when the majority really begin to profit from education of ler school.

C -

A little learning all life long

per cont it offered nothing. The report did not even refer

to port-time students who ore the vast majority of students in postvast najority of students in post-school education today. Most important, the massive injection of resources given to full-time degree lavel courses effectively held up dovelopment through pest-school education."

By 1963, expenditure on universi-By 1963, expenditure on universities had exceeded the total expenditure on further end adolt education. By 1964, the year after Robbins, compulsory day release for 16 to 18-year-old workers was "effectively written off" as a prospect by the Government because it might hamper more urgent cilucational developments, the NUS document says.

says. In real terms, therefore, Robbins expanded universities at the expense of young workers and part-time education for edults. By seeing highor education as on activity with excellence, it elevated it to the roalms of unaccountability."

The document adds: "It increased the divide between the universities and the public sector, thus creating so mony of the problems of binaryism, that cramp aducation today. It also logitimized some of the worst forms of ecademicism that were to divert the expectations of many amployers awoy from education towards the Depertment of Employonent."

Despite Anthony Crosisnd's ideol, since their conception polytechnics had aerved to further distort the division between the public and the automomous sectors. They had emulated the univarsites, and by the early 1970s the age range of polythe divide between the universities

The Rubbins report, hailed in 1963 as liberal and expansionist, has been condouned for instinuinolizing some of the most reactinoary clements of ligher education to new strategy dominant no recurrent and part-time education doe to be published next month by the National Union of Students.

The ilocument claims that by retalning tho two A level standard for universities, in line with the Rubbins report, higher education based entry in the past.

It was a decision, the NUS says, that was overwhelmingly to benefit the middlo class school leavers. It lind "summingly little" intract on the extension of necess in the working closs,

"Admittedly, it was the main factor in increasing the entry to universities from 7 per cent of 18 year olds in 1961 to some 14 per cent in 1977. But for the remaining 86 per cour it offered nothing.

"The report did not even refer."

The liddly y and frailing.

The numbers and the Nus says, the numbers are actually quite different. In further clucation the resonances in the working closs,

"Admittedly, it was the main factor in light the per cent in 1977. But for the remaining 86 per cour it offered nothing.

"The report did not even refer."

The proper your clear of the year of the per cent in 1977. But for the remaining 86 per cour it offered nothing.

"The report did not even refer."

The proper your clear and, the Nus such and the Nus case and, the Nus and the number of indivincent said and, the Nus case and the discious and the Nus contains and the origination and the contains and the numb

level, stodents.

The pupper goes on to state: "It is ruther fronte that the Russell report was published in the same year as the Indus ty and Training Act (1973), for me findings of Russell—which we i limited to non-vocational adult education—virtual olly guaranteed the unions and employers would look elsewhere for the provision of iodustrial training schemes.

The committee reviewed an odult education is a fife-long process.

"The committee reviewed and the distriction system which loss no national collerence and no strategy concerning lits growth. Adult education progrommes tend to be viewed as remedial exercise for later developers or as in the yease of the Open University, providing lives. Remarkably, the union says, the Russell committee concluded that "we see no need to propose drastic interactions. The bosic mechanics was accepted because the task of chonging it would be "mommoth".

A major problem of adult education in the United Klogdom was that it had been bistorically red greated as essentially youn-vocational provision larges.

"Local education authorities have no proposed the sone of the college situation a resonance of the fit would be "mommoth". Admit education in the United Klogdom was that it had been bistorically red greated as essentially youn-vocational conditions and fit of the college situation developed, the union and provided for silvent of the lativitidation and provided for silvent of the lativitidation and provided for silvent of the lativitidation and provided for the college situation are resonanced to make the college situation developed. Making chiracterion are resonanced to make the college situation and provided for the red college situation and the student of the lativitidation and the college situation and the student of the college situation and the college situation ano

cation ceurses were energy organized in the assumption that the more academically gifted a student, the greater his enthlement to remoin in education. But within a

li goes on to call for a compre-heasiva network of institutions working within an approved develop-mont plan. "Once local education authorities have coordicated the planning of course within lostitu-

We apoingise in our readers for the foct that this space is blank because of the mosficial action by members of the Society of Lithographic Artists, Designers, Engravers and

An overgrawn corner of Highante cemetery, London : part of the

How a spiritualist is helping with a grave environmental problem

Mr Hillman insists that his pre-premation with death springs not from a morbid fascination but from n real environmental problem. In London clone, he pulnts out, 3,120 acres of land are taken up with conclusive, gravevards and "gar-

more academically gifted a student, the greater his enthlement to remoin in education. But within a moss education system, many unreceourses should be designed for thoso who were unprepared in unable to take degree level work.

On education and training, the NUS warns that the two unist be unified. "In the immediate term we must oftempt to set clearly defiated educational gonis for the MSC courses and secure common fluoring arrangements for oil people undertaking education and training courses. The £18 a week pold to all MSe students should be axtended through further education then raised to the main rate atudent grant."

"Ultimotely the structures of the MSC must be merged with those of the education service and the NUS has already set out proposals for a National Council for Purther, Adult and Higher Education that could achieve this," the paper declares.

It goes on to call for a compre-

their lives."

Tha polytechnic has olready held three seminors on cemeterles, and another is planned for January. Usually one-day seminars, they have been almed at changing attitudes as well as lond-use. Speakers have included the NELP chaplain, giving the church view, and a supervisor from the City of London Crematorium discussing the economies of torium discussing the economies of

the vast capital investment in west ground passages, sewers, drain di-terns and pipes, "Nobady haveally terns and pipes. "Nobody has really made a systematic study of the life cyrle of these investments, the effects of corrosion, the impact of heavy traffle, or the space that is still available for the last latinos of new transport service or storage areas." It is any.

Contributors to the seminar is climited experts from the Things Valley Water Authority, London Transport, the Ordnanes Survey or any incers, architects, surveyors but administrators. The director of operations ut the Thomas Water

a case for mapping our underground is case for mapping our underground sorvices, and in true NELP style there was a practical demonstrate of downing. The sominers were able Mr. Hillman believes, to focus our practical issue of the same the approviding impursant admissional is formation.

formation.

Not all the semiours run by the faculty have been quite so exolic. There have been seminars on drawlet on London's traffic problems, and the design of living accommendation for disabled people. Duries the Archway Road inquity, the polytechnic ran a one-day case subject on the drama put their arguments. In November, hundred of students out housing officials turned up of County Hall for our off Mr. Hillonan's seminars of students housing.

of Mr Hilloran's seminars with the housing.

In one or two cases, the NELL was a many on huilding up a reputation of the first polynchoic to promote the first polynchoic to promote the chenlation of the life-cycle of the life-cycle of the chenlation of the life-cycle of the chenlat

torium discursing the economics of planning of courses within losting the community forums, should be given a light degree of fraadom in implementing their development plan.

In conclusion the paper, drawn up by the NUS daputy prasident, Mr. Feez Asbby, states. "The major political requiramant is to extend debate about recurrant education and compraheosive provision strongly believe that recurrent education provides, a method for opening up our institutions to the whole community and winning gider support for increasing the economic of the pravoyard strongly believe that recurrent education provides, a method for opening up our institutions to the whole community and winning gider support for increasing the economic opening up our institutions to the whole community and winning gider support for increasing the economic opening up our institutions to the whole community and winning gider support for increasing the economic opening up our institutions to the whole community and winning gider support for increasing the economic opening up our institutions to the first of the political requiration of the pravoyard state that they have been serious in the province of the pravoyard state of the province of the courty of the courty of the pravoyard state of the pravoyard

simon Midgley describes how one man's death affected a merger battle

Tug-o'-war college a victim of the power game

urlier this year has probuilly changed the face of thut city's higher

If the then Lord Moyor, Boh toosely, had alied just three weeks her, Coventry College of Education would have averged with Lanchester Polytechulc. As it is, plons ore on Boing shead to merge the colke with the University of Warwick. Mr Loosely's death changed the bance of power on Coventry City (ouncil. Control passed from the polanchester Labour group into the bands of the Conservotives, who

fig.

This last-minute volte-face is pertups the final and most extraordin-

What does Eva Twigg, the spiritual-list medium, have in common with Dr Normon Hickin, PhD, BSc, PlBiol, PZS, FRES, the world expert on mushrooms, insects and fungi?

The enswer is that hoth ere star performers in un extraordinary series of public seminors run by the seminors run by the series of public seminors run by the series of public seminors run by the seminors run by t Mr. Hilfman has other use the last been sent to Mrs Shirley Wilgrunnal interests. As charmed the "London Subterranean Sanja to and Science, osking for apAssociation", and a geology by proval, negotiations which are atill
training, he has run two sealests, proceeding on detailed proposals
on Lundon's "hidden" series; sould prove hazardons. gold prove hazardous.

Many people hope, however, that his is the end of o long perind of exertainty which has seen pluns be the continued independence and apparsion of the college being re-placed by proposals first for a merger with the university, then with the polytechnic, and finally wirh the

The struggle has probably inlamed local possions more than any other Issue in recent years, onl was as much about power and polihis as about education and the

To understand the strength of the sellegs involved, it la important to bok ar the context in which events

Historically, town/gown. relutionthis in the oren have not been particularly good. After are initial acadymoon period in which the city gave the university 200 occes in help create its present 400-ucre campus site, there was a steady deterioration.

Mat many councillors originally micipated was o University of Coventry. What they got was a University of Worwick, outside the sity and saven miles from Warwick: a national institution on locally donated land. And initially the university, concentrating its energy on building up a reputation in the academic world, put too little effort into links with the local community.

It was decided that the college could oo longer remain as an inde-pendent institution, and the then Secretary of State for Education, Mr Prentico, approved o university/
collega mergar in principle despite
the fact that this wont against the
national trend for colleges of education to merge with polytechnics
rather than universities.

We apologize to our readers, for the fact that this space is blank because of the unofficial actian by members of lite Society of Lithogra-phic Artists, Designers, Engravers and Process Workers. At the time he remarked on the "close and iudeed axceptional working pertnership which the two institutions have developed sinco the university was established on a site adjacent to that of the college."

Warwick University had grown

Coventry was the only college of education where courses were validated by Warwick. In addition, the university doliberotely avoided becoming engaged in initial tencher troiting, but instead founded esnull education department which concautrated on teaching higher degrees and joint BAs.

The thon Labour-controlled city council approved the idea of a niergor with the university in principle, but negotiations broke down ofter fallure to agree on three of 13 points concerning the merger. It oppears that Labour had e change of heart brought on by the afleged

The theorem and joint BAS.

The theorem approved the idea of a merger with the university in principle, but negotiations broke down ofter fallure to agree on three of 13 points concerning the merger. It oppears that Labour had e change of heart brought out by the dileged intransigence of the university.

On the face of it there were two major areas of difficulty. Agreement had not been reached on the extent of local authority influence in the university er on arrangements con-cerulog the transfer of staff from the collage to the university.

the collage to the university.

The city aducation authority argued that since it was transferring buildings and land worth about 19m it could expect to have considerable influence over the running of teacher training courses and representation on appointments committees. The university was willing to appoint taachers to appoint the university, an insultation not accounting to appoint taachers to appoint the committees and agree to some local authority representation, but it considered large numbers of local authority appointees as an infringer ment of its autonomy.

It was at this point that local authority.

It was at this point that local authority appointees as an infringer ment of its autonomy.

It was at this point that local authority was alse epposed to the cuttority to gain a toe to the craation of a separate faculty to the cuttority was alse epposed to the cuttority was alse epposed to the cuttority was alse epposed to the cuttority to gain a toe to the craation of a separate faculty to the craation of a separate faculty to the cuttority was alse epposed to the cuttority was alse epposed to the cuttority was alse epposed to the cuttority to gain a toe to the craation of a separate faculty to the cuttority was alse epposed to the cuttority to gain a toe to the craation of a separate faculty to the cuttority was alse epposed to the cuttority to gain a toe to the craation of a separate faculty to the cuttority was alse epposed to the cuttority was alse epposed to the cuttority to gain a toe to the craation of a separate faculty to the cuttority was alse eposed to the cuttority and proposed. It preferred to distribute of the craation of a separate faculty to the cuttority was alse eposed to the cuttority was alse eposed. It preferred to distribute of the craation of a separate faculty to the craation of a separate faculty to the craation and the cuttority was alse eposed

wickshire and Sulibull councils, had given their bucking to a university

despite Conservotive opposition.

despite Conservolive opposition.

And in November the Govoroment finolly approved in principle the merger with the polytechnic—despite a series of representational made to the Deportment of Education and Science against it. But in her letter to the city's director of education, Mrs Williams made it clear that she was sympathetic to the original proposal for a merger of the college with the university and regretted that nagotlatious between Coventry and the university had not been successful.

sity had not been successful.

She also pointed out—which came as a surprise to many of the interests luvolved—that es Sacretary of Stote she hod no power to imposa a solution for marger against the will of the melutalning authority. Although proposals for such o mergar required hor opproval, abe had no powor to substitute her own.

At the time of the anneuce-ment Mr John Buttarworth, the university's vice-charcellor, issued a fairly outspoken statement lo which ha said that it appeared that "only coutrol of the university, or st any rata such parts of it as were to be concerned with teacher train-ing, could satisfy the city".

intorests, was insufficient, he said, because the board was only advisory and could exert no real influence over the university Senata or Council, where decisions were actually made.

Councillor Ward said that Labour councillors were trying to use the merger as an opportunity to democratize the structure of the university. This they heye, to date, failed to achieve.

This, then, was the nub of the issue. The battle was essentially ever who cootrolled higher education in the city. From Lebour's red of view, the proposed merger.

Ing, could satisfy the city ".

During the next alx months datailed negotiations cootinued between the polytechoic and the city council to the terms of the merger. It was during this period that the city council allenated the staff of the polytechoic and the city council allenated the merger. It was during this period that the city council allenated the merger. It was during this period that the city council of the polytechoic and the city council of the polytechoic a

This, then, was tha nub of the issue. The battle was essentially evar who cootrolled higher education in the city. From Labour's point of view, the proposed merger was an opportunity to gain a toe hold in the university.

angus was leolated from the city and the properties of sets an infringence of the city and the properties of sets an infringence of the city and the properties of sets and the city and the properties of the college with the sets and the college set and the city and the properties of the college with the subject of the college of the sets and the college with the set of the college of the sets and the college with the supported of the college of the sets and the college with the support of the college of the sets and the college with the support of the college of the sets and the college of the college with the support of the college of the sets and the college of the college with the sets and the college of the colle

authority give up 1,350 student places, 650 residential units, about 50 ucres, oud 19m investment that is still so urgently needed the local authority sector?

Why deny the city council the opportunity of developing the college cumpus in association with the polytechnic, technical college and community college?

Why give up the status of the local education authority with au executive role in teacher training

He olsn esked whether the local He olsh asked whether the local education unthority would be able to exent sufficient influence of course structure; if the quality of toocher training was capable of heing ileveloped and molntained in the university; and whether the staff recruited would reflect the needs of the schwols and local caucation authorities.

Mrs Williams hos ant yet mode mrs williams nos that yet mode up her mind on the merger proposols. The likellhood is that sho will opprove, but a DES epokesman soid recontly that there were still one ar two motters to be looked of and a decision was unlikely before the New Yenr.

As far as lecturers lu the college are concerned, the morger with the university is the natural outcome of 10 years of fruitful colloboration. "We will be able to build from strength rather than go back to square one", said Mr Tom Arkell, a history lecturer at the college and choirman of the NATFHE branch. "In a period of ropid falling student numbers to have thet amount of continuity and stebility is desperately needed."

Dr D. Jeffray, a senior lecturer in blology, commented: "The relationship between the university and the college bas worked. There is obviously no reason to demolish it. Why domolish something that is a success for something which might oot be?"

The creation of a faculty of education in the university of equal status to the other three existing faculties "will give us the power and authority that was clearly not offered in the polytechoic scheme", Mr Arkell added. "We will be able to change gradually and noturally." As far as lecturers lu the college

able to change gradually and notu-

The new merged institution will be one of the faw universitie in the country offering students the choice of a BEd or n postgraduata cordificate of education after studying at undergraduate leval.

It is hoped that the link with the university will arrengthen the collaga's academic base, improve tha range of course possibilitiae, and open up opportunities for educational rasearch.

The formal merger date has been act for April 1, 1978—all bough it is intended to bring a "shadow" merger into effect from January in un attempt to enable academic planning to continua smoothly and provide an early solution to the technical problams of merging physical facilities.

Apart from the Secretary of

slcal facilities.

Apart from the Secretary of State's final epproval of the plantite players lo this two-year dramo are also awaiting the outcome of some delicate negotiutions on the question of procisely which facilities the university will be able to assimilate. Wrangling conduces on the future of abared aporte facilities and the college's excellent resources centre.

Wa epalogise to our readers for the fact that this space is blank become

Mr Pete Ashby: "We went to exteed the debete,"

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London more representative

Bill is to be welcained. The original Bill appeared to be hused on the view that nothing needed to be done to ehunga a pattern of university government which had existed for minimum, and commerce. Bill appeared to be hused on the half a century.

viding consultation for recognized rade unlans on statutes. This will co-opted. There is no reason why give the onions on opportunity to influence proposals ut an early stage. The cancession is not offered by any other notversity charter and the AUT has warned that it will try to build an its gains. The Lundon University authorities, indeed, feored that it wantd onea the floodgates for demands for trade union attended by only a handful of that representation throughout the aca-

be tackled by all universities. Lan. At dom af being flexible. Other tire of the camminity. universities should follow its

rarticipants in the an off merger sage are availing Mrs Willinme's approval of the resurrected plan to morge the college with the University of Warwick rather than with Lenchester Polytechnic.

That it should have taken two years, several fales raints, and the death of one man to decide its ilesting is e and commentary on the way lo which the future of an institution of higher education can be decided.

Chance before reason

The soccess of the Association of University Teachers in its campaign establish good relations with the against the University of Londan community which they serve and this was not reflected in the com-position of the ald Cauri whose

The must significant victory has of the university's government re-heet the university's agreement to add an accerdance to the Bill pro-should have received places on Sourit. The agreed arrangements mean that professors will keep their grip

Another difficult area is Canvocation. The omission of the Bill to refarm this 75,000-strong body representation throughout the academic world.

The buttle over the Bill bus centred un industrial democracy. This is an issue which will have to be tackled by all universities. Lan. don, in the end, has seen the wis- described as in any way representa-

dom af being flexible. Other universitles should follow its example and recognize than there are some areas of university government in which union representation is appropriate.

The promises which the AUT has secured about the future of the Coort are also important. The Churt is a powerful bady and distributes from of grant each year. The Bill proposed that it should remain es it was. The AUT, however, rightly put the view that a body with so much cosh at its disposal should ha mare accountable to the public. Thore is a growing recognition to the community.

The struggle over the Bill has furced a discussion of democracy in university government as well as a debate about the university's relations with the community. It is grand that, now the AUT's formal opposition to the Bill lines been dropped, the discussion is to continue. A study group is to be set up to look at industrial relutions with the nuiversity. It should mean that next there is an argument ultim next three is an argument ultim the university government as well as a debate about the community. It is grand that, now the AUT's formal opposition to the Bill lines been dropped, the discussion is to continue. A study group is to be set up to look at industrial relutions with the community. It is grand that, now the AUT's formal opposition to the AUT's formal opposition to the Bill lines been dropped, the discussion is to continue. A study group is to be set up to look at industrial relutions with the community. It is grand that, now the AUT's formal opposition to the AUT's formal opposition to

LETTERS TO THE EDITOR

Scotland's central institutions

more encouraging than "could do better"; and our hope for the New Year is that you will.

The festive season prompts us to be kind about the articles you published during the year purporting to infarm your readers about Scottish centrel institutions, and say merely than they were misleading. Admittedly at the time we did express ourselves somewhat more harshly in the letters you were kind enough to print. But let hygones be hygones, and gently try again.

On December 16 you published an account of the Secretary of Cantal Angients on any other prints.

State's decisions on our colleges of education, but when you come to the reference in this college you des-cribe us as a central further educacribe us as a central further educa-tian establishment. Central insti-tutions have been a distinctive sector of Scattish calcation since 1901, the Sectetary of State in his paper properly refers to us as a centrol institution, yet your reparter oust have thought that a change of warding was necessary in order to help readers outside Scotland—ul-though what they make of the term condovad is mybody's guess. How complayed is unybody's guess. How ever, we shall my to help.

The Scottish central institutions represent a unional system of higher education within the public distinctive Initiatives with cenvide most of the advanced coorses in Scatland omside the miversities. As they recruit their students 273 Bideford Green, from all over Scotland (and beyond) Leighton Buzzned, Heils.

Landownership in Nepal

Sir.—I have read with interest Duvid Feldmun's review of my hook Landownership in Nepal (University of California Press, 1976) in The THES, February 11. I consider it nocessary to clarify a few points he has raised.

has raised.

Let me, first of all deal white the criticism implied in his storement:

"Much is descriptive end can be judged as on important sance of material for other schulars with a more analytical loterest in political and economic changes in Nepol."

My abjective in writing Londownership is not to analize these changes, but to put forwerd en laterpretativa description of Nepal's lendownership systems. There is, therefore, na point in noting my comparative lack of anelytical interest in an arce After the sound and fury of bitter debate over the future of Covenity Callego of Education, It is to be hoped that its fate has now bean soaled.

Participants in the an-off merger sage are awaiting Mrs Williame's approved of the resurrected authority control over the institution.

Even mbre startling perhaps is that the l.a.e. should have et nue point demanded as many as seven prafeasorships in the new proposed feculty of education—revealing a touching concorn for the status of their amployees but a serious misunderstanding of the atructure and neture of a university.

What is less casy to ensured with

That there were important educational interest is such as indeputable. It teacher training best located in the public local authority aector or in the "private" university sector? Would prospective students be hetter off in the more vocationally oriented world of the polytechnic or lu the comparatively resolied atmosphera of the university? Is it important for the local authority at the nusin local amployer of teachers, to lave a substantial interest in the

Sir,—So far as Scottish higher education of unside the oniversities is roncerned, our end-afterm report on your tremment of it can be unside the central institutions are not part the feet of the administration of the regional students are not coming forced. of the administration of the regional

sor district authorities.

Far more than three quarters of a contary, Scotland has enjoyed a notional system of public higher decator, which allows for, and need thrives on, consequent calculate with disparate identities and the gained national provision brough a relatively small mather.

Since we not combine foreign the two polytechnics where it is gained national provision brough a relatively small mather. a century, Scotland has enjoyed a notional system of public higher education which allows for, and leges with disparate identities and has gained national provision has gained national provision through a relatively small number of autonomans, different and distinctive Institutions, all financed directly either by the Scattish Education Department or by the Department of Agriculture and Fisherics for Scotland. The regional outhorities in Scotland have responsibility ties in Scotland have responsibility for schools and further education

establishments.

A float comment on vant issue af December 16: your front page continues the story of the Clakes cannuittee and, although it is not our cancern, we do feel inclined to think that, in its central instinctions, Scotland has far a long time had a pretty good sulation.

Yours faithfully,

C. L. MORGAN, Principal,

It. DOHERTY, Vice-Principal,

Queen Margurer College.

Queen Margaret Callege,

Sir,-Exception might be taken in Dandee, St. Andrews and Stirling distinctive Initiatives with controlled provision. There are 14 controlled provision. There are 14 controlled provision in the university of Aberdeen title, ideatily and independent gaverning body, which collectively provide most at the advanced coorses in Scatland omside the university provide most at the advanced coorses in Scatland omside the universities.

As they recruit their students.

273 Bidefeet Cone.

nacded is not "a revolutionary aituetlen", but "covalutionary ca-ercion", in Barrington Moore's ercion b, in Darrington Moore's phrase, as I have stressed in my

Feldman has also accused me uf insultations in determining socia-economic change and of helieving that the right scheme could still transform Nepal's rural society. I confess I am maddle to under and what ha means, My bank deals with landownership. The question of concorned with sactor-remonite chango in Nepal. Naturally, therefore, I have stressed the rule of land ownership. The question of solely focussing un these institutions does not read to the land. tutions does not nrise. If I have not advocated the development of rural cooperatives in my hank as lendownership, would Feldman say that I am against the conperative

act Aithen, Coventry a decention, his said, his response ment that the sequence in the conjustion and activities and reform the and accountry allege of the conjustion and the sequence of the conjustion of the conjustion and the sequence of the conjustion and the conjustion and the sequence of the conjustion and the conjustic and the conjustion and the conju

Keeping politics out of AUT

students are not coming forward

Unicss and until there bear machinery for ascertaining the figures (and it is fronted in it is fronted in it is in the sa-called outling saw how sayans can get say indicates of damand far degree courses whe shall by extrapolation from UCA ligures.
On an entirely different meth

On an entirely different make, I nin curious to know why the polytochoic of Wolverhaupton, in its advertisement in the same inserter an academic registrar, thou the candidates should possess a units soiry degree; Is this not a birthed on CNAA graduates? Yours falthfally, H. E. DELL, Senior Assistant Registrar, University of Reading,

Student demand

Sir, There must be many of micro bers of the Association of Uni

sir,—There has be man old incurbers of the Association of University Teachers who, like myeli, are unterly disgusted with the selfical cancerwauling of the comid at the light. What lost week.

Now that the AUT is a fully fledged trade nation it should concern beelf sniely with pay and conditions, and nor offer itself as a planform for incological zealots who have no regard for the great iberal tradition of British universities.

The issues raised by the Goold report can been the argued in the accepted academic fashlon—in the form of publication, where their and urgument can be dispussionately assessed in the quiet of ane's study. Unless we keep politics and of the AUT there is overy likelihood that it will everyably fall into the lunds of a few internitionals—exception for their own ends. If auch people ore denied a platform by a general ruling which extradouted discussion of political issies, the chances of the association being brought into this particular kind of disrepute will be that much lessessed.

important local analysis and the control of save for the control of search and the control of search realistic in the search and region? All those questions are incorrected to be desired.

But what if equally clear in this is good used in the public is that collected to be desired. But what if equally clear in this became inaxtricelly ontained with nucesions of cointrol, but with a with nucesions of cointrol, but of one hand, Covantry (City opportunistically grabbing at a government of the colleges and the university should feel that is million to the college and the university should feel that is million to the college is the natural college is the natural colleges and the university should feel that is million to the college and the university should feel that is million to the college is the natural college is the college and the university that the college and the university to the first college is the natural college is the

Universities Collegee .

THE TIMES HIGHER EDUCATION SUPPLEMENT

Review of the year

Light in gloom cast by falling birthrate

managed to regain a precarious financial tomposure after the demoralization of 1974-76. With the restoration of an equally precarious "triennium" in March they were even abla to see a chink of light at the end of the lumic—the anc through the demographic hump of the coext six years.

Second, cash limits began to bite. In Murch the university grant settlement was greeted with relief. It seemed to be much mare generous abla to see a chink of light at the end of the eron through the demographic hump of the coext six years.

h was also the year in which the pulytechh was also the year in which the pulytechnics celchrated, a year late, the tenth annisersary of their genesis—Anthony Crashand's famous Waalwich speech, while a national conference at the Rayul Festival Hall in Landon. They too saw some light at the end of eacher tunnel the long and for some at less dreary tunnel of lacal authority contral, when the Colors committee, more at that a when the Ookes committee agreed that a national conneil for non-university higher sourcition should be set up.

For the colleges 1977 was a mixed year. No longer warmed by the press and publical spelight, the colleges of education themselves continuous their now obscure decline. Their successors, the institutes and culleges of higher education, pursued their efforts in the content of t of higher chucation, pursact their edites in diversity has arens other than teacher educa-tion, on the whole successfully but always under the waichful and even jealous eyes of the polytechnics and even universities, can-cerned that they might receive too great a share of scarce resources.

share of scurce resources.

Only la odult education was there an air of measured optimism. Here short-term concern about the future of the adult literacy programme was overshudowed by the delight that as Advisory Council for Adalt and Continuing Education had flually beau set up, four long years after the publication of the Russell report. Here, tou, the belief graw that the factors which had caused so much damage to the prospects of full-time post-secondary education, public austerity and a lower birthrate, would in the long run give new importance to adult and continuing education.

Elsewhere demography and austerity cast a black shadow over higher education. Would there be a drought of students in the later 1980s and 1990s, or would student domain confound demography as it had in the 1960s? This was not an academic question but one which crucially offected the current debate about the proper level of public support for higher education over the next few years. If the first answer was currect, then the present restrictions might become permanent: but if the second was right, they might only be temporary.

However, no one scomed eure which answer was correct. The Association of University Teachers produced projections that indicated continued gruwth. The Conference of University Administrators in a highly detailed study reached a mare ambiguous canclusion. And the Covernment scemed to be suffering from wild schizophrania: Mrs Williams horsalf in specent speech at Birkbeck foreas a sharp deline but her depertment managed to wring suffering of the Treasury a rate support grant sat of the Treasury a rate acquert grant stillement that defied demography. If the effect of demography remained

paque, that of oasterity was obvious. First, secones policy maont that once egain university teachers had lo walt for the rectification of their pay anomely. Instead they would have to be content with a 10 per cent cost. of lying increase and Mrs Williams's promise that their anomaly would he remuved as some as learner policy. 18 Incamee policy ollowed lt.

Just how unacceptable this was to mos and how unacceptable this was to most inversity teachers was shown in November when thousands cema to London to a project meeting and mass lobby of Parliament. At the end of the year the National Association of Teachers in Further and Higher Education tasually tossed in a claim for almost 20 per

II 1 Polytechnics Adults, schools !! North America IV Graduates " Overseas Science III Posi School

Second, cash limits began to bite. In March

erons than had been expected the provious autumn. But by the sommer it was already becoming clear that the assumptions who timpation used to calculate the easing rant had been for too appinistic. By the end of the year some vice-chancellars were warning af yawaing deficits in 1978.

Then, taa, 1977 was a conservative year. Relevance and the needs of industry were still very much in the air. No one was quite sure how much higher education would be affected by the new and more critical attindes to school education displayed in the Green Paper. On the other hand radicals in the 1960s mould were out of favour. Indeed miless they were very careful they stood in danger of helag bracketed with the 'Marxists' hy Professor Gauld in his Institute for the Study of Unifici pamphle. The Attack on Higher Education.

Different sectors of higher education were affected in different ways by this conservative climote. On the whole it seemed to benefit the universities. For the polytechnics the

So the pandulum of favour, perhaps, swing back a little towards the universities. They acquired a more sympathetic Secretary of State. They were well treated in the admittedly very small additions to the building programme. And the Government decided that they would be given a majority share of all students in higher education in 1981 rather them sharing them equally with the public sector.

The true lessen of 1977 was a subtle one. The muteriul retropolyment from the similatous goods of the 1960s continued—but in this respect the nutloak wes e little brighter than in 1976. A occasion of political and economic optimism returned and with it the possibility that the restrictions on public expenditure might be eased. But the ideolugical retrenchment from the hopes of the 1960s, if anything, deapened. For e higher education system whose character was indically recast in those very yeere of expansion and optimism it is a sobaring prospect.

We applogise to our readers for the fact that this space is blank because of the unofficial action by accumbers of the Society of Lithagrephic Arilsts, Designers, Engravers and Pro-

Oakes stirs the local authority pool

by Peter David

by Peter David
In 1977 the polytechnics tried and falled to
acver the umbilical cord that ties them to
lacal government. By the end of the yeer
It was clear that the Oakes committee, set up
In Fabroary to make the big decisions about
who should pay for and control the public
sector of higher education, was likely to come
up with a compromise which would delight
neither the polytechnics nor the local authorities multitaling them.

tles maintaining them.
Public expenditure cuts provided the momentum for the Oakes committee. Thisy mado it obvious that the existing pailing arrangements through which polytechnics are accepted description. The system

tled to local government purse-stringe.

Inclead, Oakes la likaly to propose e jaint system of local and central financo designed, according to the first draft of the raport, "to reconcile overall netional control with e substantial measure of local responsibility and initiativa".

The agent of netional control will be o central committee representing polytechnic and college staffs, the local authorities said other laterosis within the education service. Its main jab will be to negotiete with central government the total amount of money—currently £400m e year—to be speut on bigher education outside the universities.

It would then he responsible for illividing the money up between individual courses and

interest in the committee will not make its represented on the committee will not get.

If in already know to that they will not get its already know to that they winced to make the committee will not get.

It is already know to that they will not get its in already calculors of a university style grains committee will not get. The Association of Metropolitan Author, for an Inter-authority excepted in the report council and of possibly also a boy which would have kept polytechnics firmly which would have kept polytechnics if may consider the most of the control and possibly also a form of the commutation and two members of industry.

It would then he responsible far ullyiding the worked individual coursea and institutions, and plenning the provision of the money up between individual coursea and institutions, and plenning the provision of the money up between individual coursea and this the universitient on possible for manage the provision of higher education in parallel wight the University of the Cokes committee bility and finance for polytechnics and committee all part of the committee and the provision of the polyton of the control had the university of the course and mambers of industry. The polytechnics and two mentions of the protagonists hoving got the committee will not be greated with universities of the cokes committee hallevee tho more declaions should be taken by governing boiles ond ocadenuc hands. A authorities mother seven would be nomited the polytechnic directors and mambers of industry. With note of the protagonists hoving got the committee will not be greated with universities and two mentions of the polytec finenced needed drastic revision. The system cuables authorities to meet moet of the costs of their polytechnics by dippling into an ediverse of their polytechnics of their polytechnics of their polytechnics and freely replenished through rate support grant.

It was the supreme example of the diverse between menogement responsibility and financial accountability excepted by Mr Frank Layfield in hie report on local government finance in 1976. The Oakes committee was set up early lu 1977 to chart e new pattern of cootrol and finance for polytechnics and colleges.

It would then he responsible for illyding the money up between individual courses and institutions, and plenning the provision of higher education in parallel with the University Grants Committee.

In the December meetings of the Oakas committee local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting a desporate rearguer action to increase in the local authorities have been fighting and financial action in parallel with the University of high reductions, and plenning the provision of higher education in parallel with the University of high reductions, and plenning the provision of higher education in parallel with the University of high reductions, and plenning the provision of higher education in parallel with the University of high reductions, and plenning the provision of higher education in parallel with the

ally pay the piper, only 85 per cent of the coats of public actor higher education will be paid by the notional body. Maintaining authorities will beve to etump up the remaining 15 per cent directly.

Transition to the new finoncial system will be slaw, even if the Oakes recommandations are rapidly eccepted. Local government bacaugued forcibly that small authorities with lorge polytechnics cennot afford immediately to find as anuch as 15 per cent of the costs of the ldstitutions, and a careful build-up from a level of about 5 per cont is likely to be recommended. There will also be aafeguards enabling haas who are hord-prossed to opt out of responsibility for their poly-



portents for the New Year were

mounced that the total recurrent mone for 1977-78 would be £625m,

At the same time the Government

solversity figance into chaos.

side an attempt to return in the side of forward planning, the bandonneut of which had thrown

The universities were never happy
the the figures which would have
sent a decrease in blief grant for

to coming your, and it become dear towards the end of the year

as they would need to be endically

One of the main reasons for this

universities, however, had

anome for 1977-76 whate be 2025m, innubers unlike the form of 1 per cent in real terms. This was much less than the 4 per unit which had been feared and gredicted by the University Grunts (annulities.)

Not everyous the Government.

POSE ENTENDED TO THE YEAR

by Peter David

The student year culminated in a triumph for moderation, as the new model National Union of Students met in December to ditch the extremist policies which had brought the union into disrepute and undermined the important educational campaigns the NUS

was keen to wage.

At a Blackpool conference this mouth, the NUS agreed by a narrow margin to overturn its "no platform" policy which had beered from cannioses anyone lossely labelled racist or fascist. The same conference also voted to take steps to remove the spectre of Jewish students being discriminated against because if their allegiance with Jewish societies and the Ziouss cause.

the Zionist cause.

During the year, about 10 student unions had imposed some form of restriction on lewish sacteties, but from the start the executive of the NUS was a firm and rocal executive in the works. By the time the issue was raised at the end-of-year conference, most unlous had backed thown, and those which had anti-principally London University's School of Oriental and African Could have research of being the Studies—faced the acospect of being sus-pended from the autional union.

The conference decisions reflected a grow-

ing trend of good scuse and moderation among students. At the NUS's Easter conferaniong students. At the NOS's Easter conference, Miss Sue Slipman, a member of the actional executive of the Communist Party, was elected to replace Charles Clarke, a Labour man, that despite newspaper headlines about "red Sue, the siren voice whoing over 800,000 people in Britain today", Miss Slipman unde it clear from the moment she was elected that she stood for demacracy and tolerance in higher education.

tolerunce it higher education.

Her nam of name in make the union o powerful pressure group able to effect changes within higher education. The witch-limit against Zionists, and the "na plotform" policy she inherited, cerved only to undermine those effects.

Arrival of advisory council

offers glimmer of hope

Adult education

by Maggie Richards

A glimmer of hope duviced on the adult education horizon when Mrs Shirley Williams, Secretary of Sinte for Education and Science, finally announced the formation of the long-awoited odvisory council on adult ond continuing education.

The official announcement came

The titla was wetered down from "development" to "advisory" by the Department of Education and Science in 1976, with a gloomy explenation: "Development does not appear in the proposed title as that each the theorems to have seen

wittams in April, shortly after the announcement about the council's creation. Explaining the four-yeor delay, Mrs Willioms declared that the Russoll report could not have been published at a more inoppurium moment; it had appeared at the efort of o "finencial ice age".

Despito the revised title. Mrs Willione was confident the new

first meeting in October. Mra Willovership support for the liants told the newly appointed venables report come from the incident strengthen the lobby for adult education and to provide an influential report.

For the Open University senate in September 2017.

strengthen the lobby for adult eduction and to provide an influential volce.

For the adult literocy compagners it was a limo to ceview past ochievanaits. In its report to the DES in October the Adult Literacy Rosource Agency revealed that elmost 100,000 adults with recoding and writing difficultiee had received help since 1975.

The report went on to look to the future and the cessation of the Government's film e year pump-prinning exercise next March. It recommended the creation of e small central unit to continue the agancy's work, and suggested the allocotion of sonte form of specific funding to lineal education authorities to ensure the cootinuation of an indequate adult literacy service.

In December Mrs Williams ogreed

at presont be unrealistic."

four years after the proposal was first mooted in the Russell report, which called for the establishment of a development council.

NUS strides along middle of the road

The NUS had good reason to polish up its public image, for there were important challenges to face, in January the Council of Local Education Authorities asked its newly-lormed polytechnic "fire-brigade" to look into the management of funds by student unions. The initiative was enthusiastically supported by some pulytechnic directors, notably North Landon's Mr Terence Miller.

when the government's Compariller and Amiltor General expressed concern about the open-ended nature of the system under which more than film is spent annually on students capitorion fees. But by the end of the year the NUS had prepared a position of the year the NOS and prepared a pastion of its awa. It accepted the priociple of public accountability, but called for a new method of fiosincing student unions. This would entail a minimum union fee of \$15 per student guaranteed by central gavern-ment, and negotistions between Individual colleges and student unions to top up the balance. At the sume time, the NUS warned its members to avoid making payments to outside causes which might be thought to he *ultru rires.*

If the NU5 was worried about the interests of its own members, it did not neglect the rest of the education service. In February its submission to Miss Juner Pooles's select committee on the attainments of the schonl-leaver was regarded by one professor of edu-"great debate". It called for the remayal of the universities' "restrictive" control over the school curriculum and for the inclusion of political and sucial education in the school

The union was also one of the most vocal opponents of some aspects of the Manpower Services Commission's new programme of training for unemployed school-leavers. In particular, it wanted all students in further

education to get an award comparable to the 1/8 n week affered an the MSC schemes.

As ever, the philasophy at the student leaders at the NUS headquarters did not square with that of many students in the colleges. Occupations, demanscrations and printests accurred in several polytechnics and universities. Brunel, in particular, was accopied several times by students protesting against the new totain fees levels. At one point the vice-chancellor had to suspend all nudergraduate teaching to end the occupation.

North East London Polytechnic, too, was the scene of confrontmion between students and university authorities. The polytechnic book our an injunction against the union's pre-sident. Mr Andy Strauthous, barring him from the premises. Mr Strombous did a spell in Peotonvillo for disobeying the Injunction, but was released after the pulyteclinic, the NUS and the National Association of Teain Further and Higher Education worked out a nence formula.

It was a turbulent year for overseas students which started with the Department of Education and Science issuing its now infumous circular 1/77 which colled for a subatantial cutback in foreign mustbers. It argued for a reduction from the 1977 level of 83,000 to the 1975-76 level of 75,000 although it confirmed then a specific national ceiling was not practical for 1977-78.

But by August in a second circular the DES attitude un overseos numbera had hordened. This document confirmed that the level should be cut to 75,000 in the 1978-79 session but also substantially increased the number of students open to classification as "foreign" and therefore limble for higher

"foreign" and therefore linble for higher fee levels and restriction by college quatas.

Under the circular oversens students were retirled "specified" and can now only gain home student statue by living in the United Kingdom for three full years prior to their

formulated 10 years ago, allowed lorgister in ke classified as trame students through their parents' or spouses' length of resident rather than solely their own.

The implications are that thousands of as The implications are that mousands of new imatigrams studying in Britain may now be forced to pay overseas students' fee lash from next year following the ruling. Also dampee of being liable for higher fees at quant restrictions are school leavers the starting a higher education course.

The year has also brought indications he the Department of Education and Science considering a major new £120 scheme and thousands of overseas students for prover countries at the expense of those has the all that and developed against the all rich and developed notions. At his 50,000 at the 68,000 students expected to be studying in this country in 1981 could beats under the plan, due to be finally coulded early in the new year. But the scheme, which will inevitably mean that richer students my be forced to kny the full economic come costs of more than (2,000 a year, has you win the approval of the Ministry of Cream Development, the Foveign and Commonwells Office and the Cabinat.

There has also been a call from the Units Kingdom Council for Overseas Suden Affairs and the Council for Education in the Commonwealth for a new national boly to coordinate foreign students policy, full deals of which are still under debate

Mennwhile, despite the introduction higher fees this outurn for foreigners-the now stand at £650 n year for undergrade and 1850 a year for postgruduates-and nine per cent increase on this level do to announced in the next few weeks, application from overseas students for university place next year are up by 50 per cent over let year according to the Universities Central Council on Admissione.

source centres, to make available distance learning materials.

Eyeball to eyeball on standards

Schools and higher education confronted each other in 1977 through the House of Commons committee

to establish a new central literacy unit, but the problem of finance was not resulved. Sufficient money would be pra-The Committee of Vice-Chancelvided in the rate support grant to continue local literacy according to the DES. Literacy era and Principals complained that first-your students in universities could not cope with their work us well as in the past and blanted the groups, however, remained micen-vinced and expressed fears that proicachers' thirst for famovation. vision would cease very quickly in

vision would cease very quickly in some areas.

There was doubt, too, about the future of voluntary literacy graups.

Apart from the creetion of the advisory council the older significant development in adult education during the year was undoubtedly the response to the Venables report.

A committee, chaired by Sir Peter Venables, first pro-chancellor of the Open University, examined the role of the university in continuing education. The CVCP ottacked the widening of the curriculum to offer numernus options which meant that hasic skills were heing neglected. Same winesses to the canmittee attacked the spread of Mode 3 syllahuses.

The report of the committee number which was published in September subjects, advocated a drostic reduction in the Direct of the university in continuing edu-cation, and put forward a 10 year plan involving a gradual injection of funds, building up to a £20m commitment by 1984.

Proposals included the creation of a network of national learning re-

number of examination boards from schools continued to dominate their present 22 and soid that there degree courses. A third of disci-should be noutback in the number grunt and public school leavers

and lamented the lack of qualifications among maths teachers.

Universities, however, did not escape the committee's strictures, and their regularements clearer to schools.

Government statistics published during the year showed beauty and the predictions of methods.

Government statistics published during the year showed beauty and the predictions of methods.

The specimen syllabuses drawn and the specimen syllabuses drawn.

ing A levels cuanimied in increase. witnesses in the committee attacked the spread of Mode 3 syllahuses.

The Association of University Teachers apoke of the tendency to rolax standards in A level mothematics.

The propuration of thing successfully gaining A levels remained at about 15 per cent. The figures showed o decline in the numbers epocializing in science, though the standards in A level mothematics. there was some increase there was some increase in the number of passes in Individual

of number of character in the statutes of character of those from into the teaching of mathematics and lamented the lack of qualification of comprehensive school leavers.

The specimen syllabuses drawn up in the light of the studies were alistributed to universities to the

The Standing Conference University Entranco decided so a

After the ludigantium and fury that grooted the government's landling of the randown of teacher training in 1976 the signs fur 1977 did not be strongly when the Government is stended to reduce the amount of its lands to the college or described to reduce the amount of its lands and the proposal to merge Craiglockhart and its lands and were at least psychologically prepared fur a resumination of hostilities in the new year.

As it happened the suggery was in the new year.

After taking control of the council in Ayr, should close and that Dunfermilino and Conservatives obandoned existing plants to merge the college with the polytechale and revived the polytechale and views of universities on what needed to be studied at sixth-form level. The aim was to provide a "specifica-

Graduates turn to private sector

But the report came out soundly against the development of the Open University es n "national comprehensive university". Instead, the importance of cooperation between body would be an effective means importance of cooperonon between of future collaborativa thinking in all the institutions involved in adult and recurrent education was stressed. There was also emphesis Cation.

Updac the chairmanchin of Dr. on the need for the Open University Richard Höggart, wardan of Goldsmiths College, the council held its. of sociel and community courses, Overwhelming support for the

The narrowing of the discrepancy between salarles lu the public sector and private enterprise give o furtker fillip to the demond from graduates for jobs in industry and commerce in 1977.

The Centrol Services Unit for University and Pulytechnic Cureers and Pulytechnic Cureers and Appointments Services report that this trend, first noted in 1976, had not provided that in 1977 a very graduates for jobs in industry and commerce in 1977.

The Centrol Services Unit for University and Pulytechnic Cureers and Appointments Services reported that the heginating of the year the unit predicted that in 1977 a very graduates for jobs in industry and commerce in 1977.

The Centrol Services Unit for University and Pulytechnic Cureers and Appointments Services reported that the heginating of the year the unit predicted that in 1977 a very graduates for jobs in industry and commerced ky a feeling of opposition to the priority of the heginating of the year the unit predicted that in 1977 a very graduates for jobs in industry and commerced ky a feeling of opposition to the profile that the industry and commerced ky a strong feeling of opposition to the profile that the feeling of opposition to the profile that the heginating of the year the unit predicted that in 1977 a very graduates for jobs in industry and commerced ky a strong feeling of opposition to the profile that the heginating of the year the unit predicted that in 1977 a very graduates for jobs in industry and commerced ky a strong feeling of opposition to the profile that the heginating of the profile that the heginating of the profile that the profi

We apoligise to our readers for the foct that the spoce is blank because of the unofficial action by members of the fociety of Lithographic Arists, Designers, Engrovers and Pracess Workers.

British Treation of the first and the contract

requirements of the private sector, particularly manufacturing.

Int, while the cursilment af, jublic investment continued to reduce the trainceships available to evidence the trainceships available to evidence the trainceships available to evidence the supply of gradusts in electricul, mechanical, production and chemical engineering again failed to meet demand.

The position of students completing teacher training has almost certainly deterioreded during the year, but graduotes have found the passion less stark that expected, the decrease in the number of women emharking on teacher training has applied to almost all subjects, skilling the year the graduate skilling the year the graduates by the Recruitment of graduates by the Department of Health and Social Dupartment of Health and Social Security elleviated the expected of hack in reccuitment by the Ciditates.

In May he withdrew his original propusal to mergo Craiglockhart and the deducation authority officials and the deducation still continuous future of treather troining in Scotland, Mr Millan aumounced that all 10 colleges of education were to be saved—albeit with lower student intakes.

His decision came after a far greater degree of opposition to the proposed cuts and mergers than the deducation authority officials and the cauchor authority officials and the cauchor authority officials and the labour group.

In London the future of teacher and announced that the totol numbar of troining places in large authority officials and the labour group.

In London the future of teacher announced that the totol numbar of troining places in large authority officials and the labour group.

In London the future of teacher announced that the totol numbar of troining places in large authority officials and the cauchor authority official As it happeared the surgery was not so brutal as many had feared and in Scotland ut least a notable, is perhaps temporary, victory was

and the second property. Colleges of the colle

Another of the year's controversies concerned the kirth-rate. In

The universities began the vent and of foreboding and ended it with feeling that things oright have welcome Christmas present. The money is being used mainly far new residences. far new residences and is nat enough to floance large projects, but more is expected. Indeed, vaiversities said they were not tre-paved to necommadate the extra numbers unless they were given extra caeh. How much mare they Ailmissions have, hawever, continned to grow by around 6 per cent, especially in science subjects.

> Not everyune was convinced that the Government's March announcement was no generous as Mrs Williams claimed. In May, university finance officers estimated that the cut for next year would be 3 per cent instead of 1 per cent. the number of lecturers had increased by only 0.1 per cent as staff posts remained frozen.

Mrs Williams announced provi-imal grants for the years until Ml. At 1977-78 prices these were 556m for 1978-79, £564m for 1979-A, and £572m for 1980-81. There were also fears that rhe allowance for inflation in the recurrent grant for next year was 100 low. One of the most important factors in this was the salaries bill, which was still not known by mid-December.

The provisional grant allowed for only a 5 per cent increase in uni-versity teachers' solavies next year, but by the nutumn it was clear that their pay rise was likely to be more substantial than this.

One of the main reasons for the six dia new target for students in tigher education in 1981 amounced by the Government at the kegindag of Decomber. The original tares were based on the undersading that there would be oround \$6,000 students in universities by Indignation grew among uni-versity teachers whose salaries now lug behind those of their callengues in the public sector after the failure of the Government to implement the scales owarded by an arbitration tribunal in 1975.

They put in a claim for 16 per cent to correct their salary anomaly, and a further claim for on annual increase of oround 16 per cant from their Coreles.

Patient recovering well after major surgery

The universities, however, had pessed for more, and the Gavernment sgreed to 310,000. The decision, taken on the grounds that it sill cost less to finance the expansion of higher education in the universities than in the private sector, means that the universities will have 8000 more students than polytecholes in 1981 despite the 1972 White Paper, Pranegurk for Expansion, which envisaged equal numbers in both sectors.

April, university administrators warned that universides' growth in the 1980s would be threatened by the declining numbers of 18-year-olds, although this was challenged.

This has led to a worsening of the staff : student ratios in atany places. In a survey, of 75 per cent of versities the AUT ceckaned while undergradoute numbers had

Grants Committee in a letter in vice-chancelors in the summer. This suggested that arts oud social science expansion should end.

ment studies and some languages. Nor would more law schools be

Slightly better than expected

The direction which universities should take in their future expan-

There were unlayoutable com menta on the proliferation of social studies courses, and the UGC said li could enchurage no further ex-pansion io mathematics, manage-

Perhaps the biggest storm of the year was caused by the publication of the ulnth report of the Public Accounts Committee whileh said that universities had been able to maintain their expenditure per student at 1971-72 levels.

in and a further claim for on annual increase of evolund 16 per cant from their protests culminoted in a lubby of Parliament and two mass meetings in Central Hidl, Westerninster, in which 7,000 dons joined. But at a meeting afterwards with Mrs Williams, a deputation was told that the Government Intended to stick to its pay policy. Although hupes of a phased settlement of the statement, which was based on the evidence of a UGC witness who said he was speaking from meeming, was contradicted by the AUT ond others who argued that expenditure per student had declined by as much as 6 per cent. The report confirmed the growing feeling that universities were under attack by the public and declined by as much as 6 per cent. The report confirmed the growing that the Government intended to stick to its pay policy. Although hupes of a phased settlement, which was based on the evidence of a UGC witness who said he was speaking from the expenditure per student bad declined by as much as 6 per cent. The report confirmed the growing that the convenience of a UGC witness who said he was speaking from the expenditure per student bad declined by as much as 6 per cent. The report confirmed the growing that the convenience of a UGC witness who said he was speaking from the expenditure per student bad declined by as much as 6 per cent. The report confirmed the growing that the convenience of a UGC witness who said he was speaking from the expenditure of the was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from the convenience of a UGC witness who said he was speaking from t This statement, which was based

A watershed abounding universities will receive an extra E4.5m for building as part of the Government's basis for the construction industry, was a small but

In the history of the polytechnics 1977 is likely to be remembered as a watershed. Far reaching changes in the management and finance of public sector higher education were inhiated, anajor developments in the realst of credit transfer were amounted and the future role of polytechnics continued to be the subject of energetic, it sporadic, debate.

debate.

As the year drew to a close the Oakes Cantinities, which had been reviewing the control of higher education in the public sector for

education in the public sector for trearly 12 months, agreed in principle on a new system of combined national and local finance.

Its owline linal report recommended that a national caunch should be set up to distribute mare than 85 per cent of the costs of polytechnics and colleges, the remainder to be paid directly by the oraintaining local authorhies.

As well as help the year of

As well as heling the year of Oakes 1977 will also he reculled us a time when polytechnics felt themselves forceasingly under attack from both central and local programment.

government.

The early mouths saw growing moves by the local nucleorities to lucrease their control over the teaching and non-teaching staff establishments in polytechnics and weaken the hand of governing bodies. In February a working party was

net up to luvesilgora ways of estob-lishing a national forum of polycounter to the growing power of local authorities. The attempt to create a third fovce collapsed after the Council of Local Education Authorities and the Committee of Directors of Polytechnics both made it clear they would not release. echnic governors to net os o atrong it clear they would not wolcome ony new hody.

Ilopes of forming a new associa-

tion of polytechnic governors were dashed in Octobor when only 13 of the 30 polytechnics attanticd a

tion. Concern was expressed at the meeting about the political effectiveness of the CDP.

In Naveather, after a private in-formal attendag of directors and governing body chairmen, the chairman of the CDP onmoured that there had been no attained standing between the majority of palytechnic governors and directors,

In June a compaign to win the same proportion of higher educa-tion glaces for the colleges and polytechnics as for the universities was inhiated by some local authorities. Fears were expressed omong chief

education utilizers that the expan-sion in the local authority sector rould be so small that it would threuten the survival of some for-mar colleges of education which needed students for diversified courses. A resolution from Shef-field to the Association of Metropolitin Associations' Education Committee said the increase in mot-bers in both sectors should be broadly comparoide.

In the event, in late November the Government announced that tho number of odvenced further education places in polytechnics and colleges was to be pegged at 250,000 in 1981-82, while the universities should be ellowed to increase much bers to 310,000.

After booring the news that tho For Expansion for the universides and the public aector institutions to share numbers equally by 1981, the CDP resolved to press to nicely Mrs Williams, Secretary of State for Education and Science, to put its cose for a bigger share of monthors in the 1980a.

The CDP felt this was a departure from the previous "even-handed" policy and saw Mrs Williams's failure to set a precise polytechnic target within the advanced and further education total as audinous

ther education total as animous. These factors, together with her announcement that the universities were to receive a grant of £4.5m in the additional building programme, whereas local authorities were only to be allowed to provide a small increase in the resources ellocated to polytechnics, led to increasing fema that the polytechnic's alistinctive contribution within alivanced further education could

in polytechnics: 16,000 were teacher training students, 5,000 were studying et non-odvancod level and 96,000 were studying et non-odvancod level and lovel. This compared to 113,000 m full time end sandwich courses in 1976 and 97,500 lo 1975.

Of the overall 3.5 per cent growth in full time and sandwich course numbers there was n 7.5 per cent Cabinet.

In June a conference of the National Association of Tenchers in Further and Higher Education discussed a new plan for a national forum of teachers and their trainers in deal with future education growth in sciance, technology and mathematics and o 6 por cent growth for oll other subjects excluding teacher training. The growth in salone, sechnology and mathematics

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C.

North America

by Michael Hinyon

A self-effacing 37-year-old engineer of Norwegian descent stirred up-more passion in American higher education last year than any other person has for years.

Alan Bakke, the white student who sued the University of Caliornia for reverse discrimination, became a cause celebre in 1977, on-leashing a torrest of argument, the

future of the civil rights moreowar, his case is crucial; for higher eduthe major issues troubling colleges trution vacillated. According to

As Anterica has heard countless times, Mr Bukke was twice rejected by Davis medical school, although 16 block students with haver grade

A California court decided he had been a rictim of racial discrimina-The university appealed to the Supreme Court, and un October 12 the nine justices heard what has been described as the most monten-tous civil rights case since the fantous school desegregation case in

His case divided higher educa-tion aimost us bitterly as it divided (and confused) traditional liberal allies in the civil rights movement. Universities, whatever their doubts out administrative difficul-

outspoken in their opposition to any educational policy be made any remedy to the wrongs done to without recourse to the courts?

A further round of campus beintightening, affecting both acodemics ond students, was evident in orust western countries. Much gloom was expressed about worsening graduate joblessness; and many institutions were forced to make economies by freezing staff vacancies. There was growing official recognition that opening the universities to more people over the past docade had backcally led to a larger pool of highly educated unemployed.

Tales of taxl-drivers with PbDs, long common in Italy, began to crop up in such a hitherto unlikely area as Scondinevin, Nince per cent of higher degree holders in Sweden were out of work, doublo the number of 1976; in Norway the figure was 10 persons a secondinerial estimates to Depolary accounter estimates

woa 11 per cent. Government estimates io Demoark warned thot 100,000 young people who have had post-colopulsory education could be jobless by 1990.

In France, concern concentrated on possible staff cutbacks. The country's vice-chancellors told Presi-

dent Giscard that Present policies would mean the universities would only be oble to take on 200 new staff annually over the next 15 years. Early retirement together while the reallegation of some pre-

with the realiocation of some professorial chahrs were soggested as ways of unblocking the promotion

iodder, Sweden's new government, which in July pessed into low the

nuses of the country's new universities, that the Praser goveroment increesed the university bedget by only 2 per cont, a figure which lugged far behind the inflation rate. Universities as diverse as Macquarie and Sydney from inflation rate.

A further round of campus beli-

President Carrier's public apposition fact that this space is blank to the idea of quotas—in education because of the mossible action by

or in any section of suciety—a members of the Society of Lithingoremutent brief which rame down graphic Artists, Hesigners, Enough the side of Mr Bakke would be grarers and Process Workers, political dynamite.

Medical schools have been locked organient with the government

on vocational caurses.

The Carnegie Council issued an important report on the future of

in the long term it could, in the Secretary of State for Energy's words, "open up a new ond virtually inexhoustble source of coercy for the 21st century". But the immediate impect on British oniversides will be small.

New man took ever at the long

universities have began artempts to restructure medical training so that there is greater cross-morement with the liberal arts.

But the medical schools, like the law schools, remain the gneway to America's professional cite, at a time tehen posignaduate qualifications are increasingly in demand the medical less and less to be ullievlated. Mothers are increasingly in demand the manufacture of the medical schools, remain the gneway to America's professional cite, at a time tehen posignaduate qualification with government regulations are increasingly in demand the manufacture of the medical schools and with the universities raises agazins in the universities raises are successional discussion about the rule of Marking the medical schools, like the universities raises and in the medical schools, like the file of the medical schools, like the universities raises and in the universities raises agazins in the universit him in the same time less and less promised last year on the Bir able to guarantee a post-graduate-type jub, medical schools still proride demanding training lending to u rewarding job.

For medical schools and far the rest of higher education, test scores have become increasingly important but not shaply because of increasing competition (In mony cuses the fulling birthrate is lending to a decrease in traditional college-age applicants). The pressore comes from the back-to-hasics movement, naw sweeping America.

This movement is most forceful at primary and secondary school level; but last year it reinforced the efforts universities are making to counter poor writing and lack of hasic knowledge unung entering suidents. Many colleges have set up writing

"clinies"; and among the leading institutions on important and rigorous debate is going on about the reestablishment of a "core" curriculum, cutting down the muober of elective enurses and reassert-ing traditional disciplines. (This has received the enthusiastic support of

The Carnegic Council issued an the heginning of the year frad little important report on the future of tangible effect of higher education, medical schools, and a counter of except the appointment of new and

Do social scientists mean what they say?

but one of contract.

Theorizing ", says Mr Richard Iohason, "employed as a word of abuse, renders trivial a key prohment's part; not much , achieved.

enin the human sciences: in 1991 is it levels of levels of abstraction is it most useful to work?" But it may be felt that "useful" and "levels of abstraction" are strangely lux uposed in respect of human affairs; he same applies in mords like model" used in respect of the dolce between "conflict" and "consensus" models of society.

The levery provisional language. The other big question whether President Carter wolf to up a separate department of cation, as he promised deing be election campaign. For monoic year he was preoccupied say
year he was preoccupied say
getting an energy department in
recently a cubinct education are
tury lauked ourse of a possibile.
Otherwise higher education is a
falry steady year. The cish de
fintion and vising costs has a
danuar, adults ore convenients a

Consensus models of society.

Otherwise higher education is a soggest samething less than contained an up the empty place in the falling hirthrates; and studies in the mained as quiesceur os by his the none point of view, and named as quiesceur os by his the none point of view, and principle of the border, high ship points of the border, high ship points of the han one point of view, and contained an area from purity culin remained an area from points of riew that we do not studies and the points of riew that is do not studied the principle of the points of riew that is do not studied the riew that is do not studied the riem of the riew that is do not studied the riem of the cation remained an area don-purative culm at a time who six Canado avas being wracked by Qu-bec's separatist latentions. There trainers all longuage bill a Oake

ese rould be indoctrination.

Boyond this we live in a world of impothesis, of what might be the care. G. E. Moore refused to leave tommon seuse at the door with his imhella when he came in to do philosophy, but he mas municipal and he has been castigated for it. We hably a world where pigs might fly, and it is our business to estublish the circumstances in which this trurersial longuage bill in Oake closes not affect post-seconday elections not affect post-seconday election directly, though blefil in heen worried by the future.

In other provinces the man appropriate have been over higher fear for foreign stollents, the employment of and future prospent let Canadian academics, and the election makes and under what formely should federal funds be made available for higher education. is the circumstances in which this

had in the housen sciences : in what

fly, and it is our business to estublish the circumstances in which this sight be possible.

Ideas are to be entertained, but like proved immensely valuable in the pursuit of non-scientific ends? If as both, then what kind of political cleim was being made? Even Peter Berger, in Invication to Success, where it is vitally connected to helieve, but we are contracted to helieve, but what the edroncement of handledge tocaus.

This poses two problems for the social sciences. The first relates to the real difficulty of saying onlyling that has not ken said before. Common has been a reaction against this: professional expertise has been replaced by political octivism, and that is in sume ways more houses. But social scientists are still unt quite in the open. They do not meet their fellow citizens on an entirely equal footing since the chain to diagnost is still there, and must be if they are to make u distinctive contribution.

It is, therefore, "suclety" that is of fault now. But that is to misce all sorts all difficulties allout in the social scientist's nwo feet has been and ospirations of scope, the target is much less of scope, the target is much less.

the SRC it could spend acceleration in the Ruthertonic laboration survey. It is natural laboratory in the Ruthertonic laboratory in physics when it starts operating in 1982, some cynics concluded that a perimary notivo was the preservation of lobs for the SRC's own staff at the Rutherford they would trailer bove seen the money spent in their own hord-pressed laboratories.

Indeed, the dual support system to University Grants Committee coverage overheads and the receastic numerity overheads and the receast numerity overheads and the receastic numerit

The problem is to know whether b say comeding sensible at the cast of being obvious, or to be righted at the risk of straying too sensuside the bounds of common says. Hence se. Hence, perheps, the tormeu-langusgo of so many sociolad-treadsas; it is required by the sc of the situation.

Secondly, recommendations about happen effaire (sociological experiments) caonot be made from a purely speculative base. Soonething more is required as feedings that mere is required, a feeling that is being said is ruly meant. Since these are metters that constant is closely we need to know the people stand, not as social for example, we are repontedly light the tworld but to change it. For what we have to unifer the world but to change it. From what kind of "knowledge is Traditionally from multical

Traditionally from political

Peter Nokes explores the linguistic tangles

that arise when social science

tries to explain what it is about

real issues that accounts for the pejorotive uso of the words "theory" and "theoretical".

At the same time the rery hear with which theoretical propositions with which theoretical propositions are udvanced suggests that sunte form of courierion is present, and unce obvious counter is to cloim that what is soid is in fact believed. Olivinusly this is to ahondoo the infield claim to selentific respectability; nevertheless there is much talk about "commitment" at the

talk sbout "commitment" at the present time, and it any case social scientists invenives, been ready to involve themselves in social netion. But this has always ruised the question of in what enpacty diey did so. If as scientists, then how evere these activities related to their systematic thinking, and whot reflection did they cast on the quadity of that thinking? If as citizens, thon what right did they have in invoke the authority of science in the pursuit of non-scientific

iting news of places where nakeny less has been. By extension it is of fault now. But that is to raise all sorts all difficulties altoot where the side is of scope, the target is much less indealife of public institutions.

But this kind of material, though isseluting, well-written and even useful, is no more than high-level, reportage. The strategy is that of alloceenth continy gengraphers lies exploring and then providing in account of the sources of the senso whot is being said is meant, especially when the revolution of "discovery" was often account of the sources in the strategy is that it is now meet in the revolution of "discovery" was often account of the sources in the strategy is that it is now meet in the revolution of "discovery" was often account of the sources in the strategy is the strategy in the senso whot is being said is meant, especially when the revolution of "discovery" was often account of the sources in the strategy is that it is the senso whot is being said is meant, especially when the revolutionary implication of twiat is in the strategy in the senso whot is being said is meant, especially when the revolutionary implication of twiat is in the senso whot is being said is meant, especially when the revolutionary implication of twiat is in the senso whot is being said is meant, especially when the revolutionary implication of twiat is in the senso what is being said in the senso whot is bein

We spologise to mir reodera for the fact that this space is blank because of the unofficial action by members of the Society of Lithographic Artists, Designers, Engravers and Process Workers.

neous clulus to respectability and the pursult of tenure.

Obviously it in bad teste to say that, but existential inquiries in ust always be in bad teste. In any case the auswer is ready; whot is sold must be believed because it is sold must be believed because it is said. The thought is the longuage, as R. D. Leing pointe out in The Divided Self. A rapid peroling and it is one that records well with the nution of truth os an historical energent, or us cultured, since issue the disciplioe. But there is an energent, or us cultured, since issue the disciplioe. But there is an energent, or us cultured, since issue the disciplioe. But there is an energent that we remere of culture.

Confirmant in The Presentation of Self in Eccase it is doubt in the universities are now equipped in Everyday Life: sincerity is when we believe in the impression instead by our own performances. It is unlikely that he conducts his own life on this hasts. But he does say it, and it was perhops incyltable that he should say it has view of his original aim to develop a socialogical version of the structor of the self in should say it has view of his original aim to develop a socialogical version of the structor of the self in should say it has it is implicated in interest of application are only in matters of application in all is simplicated in the involved at the puriments of application in all is simplicated in his view of human relationships as essentially dondrative or manipulative—e genulately "parasold" riew if ever there was one—and that is an objection that come be under to Sartre too.

It is all the more possible in the involved out, "Rele" solution of by his research to the involved out, "Rele" in sociology, and was eminately called the nore possible in the universities are now on the supplied in the involved in matters of application in all is view of human relationships as essentially dondrative or manipulative—e genulately "parasold" riew if ever there was one—and that is an objection that come be under to Sartre too.

It is all the more possible in the universities are now of the supplication in the involved in matters of application in the involved in universities and of selection, if only as contrading the sundpoint, or without a standpoint, or without a standpoint, or without a standpoint consistent with any kind of employment officerial provided in the calculation of a pull-called in the involved in the involved in the involved in the involved in the present of selection, if only as contrading the involved in the involved

unde to Sartre too.

It is all the more possible in adopt this view on the insture all language since truth itself has become problemanical, and reality shoren to be a social construct. Neverdoless Berger and Luckmann hid plan their book, The Social Construction of Ranlity, in the course of a trip in the Austrian Alps, and it is a pity that they did not take that fact more into account. Not all reality is social reality. There is also a reality of things like motor vehicles, which run over people regardless of their epistemologies. Devid Hums was aware of that fact, and so was Samuel Johnson.

This is the everyday reality of

We applogize to our readers, for the fact that this space is bisnk because of the unofficial action by members of the Society of Lilhogra-phic Artiste, Designers, Engravers

vance "sits ill with the essentially platonic basis of British society, including the British educational system, the tradidom that troth is the prerogative of those furthest removed froot the world of events, old dot allocates o correspondingly low status to those who actually do the world's work. It is on this bosic that was distinguish between educationists and social workers, sociologists and social workers, criminologists and prison governors. It is an arrangement that gueran.

thicking is a form of implicit behaviour, if only as an indicator of how we might act if only we had the chance to do so. If this in so it would exploin the ettractions of Merxism, since only a radical reshoping of society can bring obout a situacion where the relevent skills can be deployed.

A characteristically British variant of the first is the idea of social

studies are, for most people, vaguely equated with social work training and indeed that is the main ming that most of them do. But or this connexion applied social studies is to most other a torm of convenience to more than a term of convenience. Social work training can proceed without any questions being raised parily because professional courses invariably have about them something of the rite de passage, and their technical content is often less than might be supposed.

with they actually do.

Yet there is a problem, since the epistemology of "opplication" has never been worked out. "Relections. He was asked why has chers. He was asked why has the come into social work. winted to come into social wife in wanted to come into social work, and replied that he had thought very corefully about it and bad come to the conclusion that this was

come to the conclusion that this was
the proper point to intervene to
the end of changing society.

That was not in itself a had thing,
but he had spent 18 months us on
unqualified social worker and tho
paged was anxious to know what
he lind meda of that experience.
What panels are generally looking
for is detail, evidence that the
conditate has octually been somecandibate has octually been someratere, actually been involved in
events, and if at all passible has
actually derived interest and enjoyment from it.

In this case little concrete
becomester and services and enjoy-

Information was forthcoming in all.
The man spoke of his cilcuis as siruting various sociological and Illustrating various sociological and political theses, but of no point was there any indication that he had reloted personally to only of theor. Nor was the panel only nearer experiencing lilm as a person. Eventually he was asked about his non beliefs and convictions. He thought carefully, and replied:

"My ideological position is . .", It was thought that anyone who used

bosie thot we distinguish betwoon cuccitonists and social workers, sociologists and social workers, criminologists and prison governors. It is an arrangement that guarantees us ploasent omployment, and this opportunity to have e hand in offsits without involving ourselves in the messitiess of sectuality. It is one that has a direct hearing on the prospects for un applied on the prospects for un applied social science.

In what sences might it be possible to speak of the cocial sciences being used or applied? One possiblity is the original positivist vision of social science one day replacing politics, humon affaire being directed by a specially Irained elliphese of this in recent yeers, but it is probably the that ettracts a good many undergraduates to sociology.

And indeed down.

running tremms incir vorious organizatious.

Memwhila elso thare are other last incircular. The

Bakke provides a rare focus for all ills

creasingly clear that the Carter interestingly clear that the Carter intensity atting, which had tried to keep our of the affair, endd not duth the issue. But it was also fuorensingly clear that in spite of We appliagle to our renders for the Pengishar Canada and the first that

For several months the adminischanged its mind several times, and President Carter bimself intervened to tone down the Justice Depuri-ment's hard line ugainst the uni-

The result was a compromis luit the administration ilid declare that rice annualistration and declare that rice was a factor that could nord should be taken into account for undersity admissions. This was supported by the Cornegie Cannoil for Policy Studies in Higher Education, which vigorously supported permetty conscious supported properly conceived affirmative action plans.

For oniversities Bakke was partienlinly vexing us the issue in-cluded other controversial questions os well us race : how much federal government lutrusion into univer-sity affairs was admissible? How ties with affirmative action, arere generolly anxious that their programmes to encourage aninority stadents should not be placed in jease dents and dents are dents are dents and dents are dents ar But a number of academics were ordical education? (Inw could

Berufsverbot policy. All public sector employees, including most academics, have to prove they are

which in July pessed into low the U68 legislotion—the massive shake up of higher education which had been gesteding for 10 years—housed that plenned unification of sli third-level studies would lead to more mobility of academic staff.

Keen disappointment was felt in Aostralio, especially by the campuses of the country's new university.

the oow Japota administration ended Mrs Gandhi's tight hold over the universities but only succeeded in releasing a long, pent up head of steam: vociferous ilemands for the sacking of vice-chancellors who "collaborated" with the Emergency

by Clive Cookson

initions and to try to introlluce fixed-period undergraduoto courses. The students angry, too, at the fulling worth of their grants, were not pleased to heer a government, spokesuon say: "They are the only group in the country which is paid to sit around out talk about politics."

The introduction introlluce instead, the councils ended 1977 looking forward to slightly higher science budget over the next few years then they did expected in Jonuary. The Government gave them two £4m presents in the automit; and for capital in politics."

Instead, the councils ended 1977 looking forward to slightly higher science budget over the next few years then they for all ender 1977 looking forward to slightly higher science budget over the next few years then they had expected in the country of the next few years then they had expected in the country which is paid to sit around out talk about politics."

is paid to sit around out talk about polities."

The introduction of foor-year coursea in most subjects continued to be strongly resisted by ecadomics in Holland. With the final collapse of the socialist-led caretaker government in December and its replocement by a centre-right coolition, the universities were being for an easier ride than thisy have find from the forecful and controversial Labour education minister, Professor Jos van Kemensde. In particular, they will be pressing for an end to long-term plans to aholish tha university sector as a ceparete entity.

A new government elso took over in Irelond: all progress towards the publication of news was considered to seem to be the over-riding anxiety of most university scientists.

At lasst in symbolic terms, onther piece of good news was October's Common Market decision to elte JET the long relayed European the progress to search the second of the for current spending in 1978-79.

In the universities and provisions show ended the circumstance of decience and engineering provided more cheer. Admissione in most eclendic disciplines were substenced with the trend is continuing swing lock to eclence ond engineering provided more cheer. Admissione in most eclendic disciplines were substenced with the trend is continuing swing lock to eclence on dengineering provided more cheer. Admissione in most eclendic disciplines were substenced with the trend is continuing swing lock to eclence on dengineering provided more cheer. Admissione in most eclendic disciplines were substenced with the trend is continuing swing lock to eclence on dengineering provided more cheer. Admissione in most eclendic disciplines were substenced and the collapse of the continuing swing lock to eclence on dengineering provided more cheer. Admissione in most eclendic disciplines were substenced and the collapse of the continuing swing lock to eclender and the collapse of the continuing swing lock to eclender and eclendic disciplines were substenced and the collapse of the continuing swing lock

Bill requiring them to accept third ring from foreign medical schools. The most prestigious schools have hegin a compaign of defiance of the clause, regarding it us onwarranted intrusion into their academic authority. Congress will probably amend the clause: but meanwhile the definit schools face a cyt-off of federal funds.

America's new commissioner of educinion, Dr Ernest Bayer.)
The change in administration at

Taxi-drivingPhDs spread Now for the good news

on youth For the first time in several years, the balance for livitish science tilted SRC pulley continued to shift

Vocational preparation of the 16 &

scalentics, have to prove they are not "ugatost the constitution" when applying for jobe. There was a morked full in the public activity of radical academics.

Even West Germany's students managed to boycott icctures for two weeks in December without too much overt left-wing militancy. The protest was over moves by the regional governments in end computed spin and ospecially in the internationally consisted in the fulling worth of thoir grants, the balance fax liritish science lifted towards from 1977. In purely floorical terms, prospects which implies a cantinuing sharinge of sinking currency caused severe distress to olf five research councils and ospecially in the internationally canadited science looly.

Instead, the councils ended 1977 to obtain grants, too, at the fulling worth of thoir grants, then they had expected in Jonuary. The Government gave them two £4m presents in the full benefit many hundreds. The 2200m moundmine to be it

The question of organization has prubably constituted the main source of prievance and led to far more vociferous attacks than the hintorivection of the programme to Practically name of the organizations of Practically none of the orga agreed that the proposed structure

International concern over terming of steam: vociferous ilemaods for observation of the whole of medical education—inosgroduste vers. The General Modicol Council will take control of the whole of medical education—inosgroduste vers. The General Modicol Council will take control of the whole of medical education—inosgroduste vers. The General Modicol Council will take control of the whole of medical education—inosgroduste vers. The General Modicol Council will take control of the whole of medical education—inosgroduste vers. The General Modicol Council will take control of the whole of medical education—inosgroduste vers. The General Modicol Council will take control of the whole of medical education—inosgroduste vers. The General Modicol Council

Post-school

£200m impact

19 uge group typs the major less.
The biggest impact was made he the introduction of the Manpor Services Commission's youth opportunities five-year programme, while comes luto operation next September.

medical profession at some unspecified date. That means that the
fied date. That means that the
schoole will eventually be frech
from the shackles of the antiquoted
Medical Acts which chorge then
with the responsibility of turning
out a complete doctor efter five
undergroduate years.

The General Modicol Council will
take control of the whole of medical education—postgroduote ond
undergraduate—and thu medicul
achools will have more freedom to
riculum.

Meanwhile medical acts

This is the evaryday reality of crery person, it is pre-eminently the reality of people like sculptors and engineers who have to take account of the ectual properties of moteriols, and it is the working reality of a great many people in the universities too. Natural scientists, and especially applied scientists, and especially applied scientists, are assessed daily in terms of unicomes that are rooted in the science of short-term and traceoble anteours that smobles social scientists, and some psychiatrists, to enguge in what amounts to forms of collective solipsient.

The even solipsiets look to left and right when crossing the rood. Hut even solipslets look to left and right when crossing the rood, and even social scientists compartmentalize. They hove to, since private life domands some dagree of personal continuity. Psychologiste do not as a rule conduct thair domestic lives to eccordance with the latest srticla in New Society, and when they attempt it they run into trouble. But while comparionentalization presents no particular

emergent, or us culturel, since issu-goage is but an nepect of culture. It does loove dangling the possi-bility of insincerity and self-decep-

trouble. But while comparionentalization presents no particular problems to notural scientiets (physicists do not really worry that the coroflakee might fall through the breakfast table) for social scientists the Issua is a dalicina one, since what is being said in the lecture room is osteneibly concorned with how we liva.

One possibility is to retreat into theory for its own saka. Another is to coodemn domestic life, and we have seen plenty of that. The

ls to coodemn domestic life, and we have seen plenty of that. The most normal excetegy is to make light of the entire issue, to be skilfully unewara. But for those who are awaro, end do feel an obligation in these matters, the problem thinks in recent yeers, but it is probably this that extracts a good many undergraduatee to sociology. And indeed such a promise would seem to be being made, especially at the result of increased graduate output. Proctitioners beve always completely at the result of increase distinctions.

in which an individual begins to view himself es ao object of theoretically British variant of the first is the dea of social science is in the first is the dea of social on the is training of e mondarin alltering attention) aventually disappeors in the training of e mondarin alltering attention aventually disappeors in the regrass of his own perceptions. That this does not hepen more often is simply due to the pen more often is simply due to the poblic administration, and it is on the ecce are the colleges of higher thousands in the regression of the degree-awording listatutious. The degree-awording in the proportunity to coma up with somorting different, but do not really opportunity to coma up with somorting different, but do not really opportunity to coma up with somorting different, but do not really opportunity to coma up with somorting different, but do not really opportunity to coma up the popportunity to coma up the popportunity to coma up the popportunity to coma up opportunity to coma up the popportunity to coma

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Composing on to canvas

We opologize to aur reoders, for the fact that this space is blank because of the unofficial action by members of the Society of Lithogra-phic Arisis, Designers, Engravers and Process Workers.

The Pointings of J. M. W. Turner by Martin Bullin and Evelyn Joll Yule University Press, £6S.00 until 31st December, 1977, £80.00 there-ISBN 0 300 02130 S

Until recently British painting was nofashioneble in academic circles. It was left for the connolsseurs and critics, who wrote books for other connolsseurs and critics, and consequently the "sebolar" existed in something of a vacuum. Since around the late 1950s, however, Important work has been done: ono thinks of R. B. Beckett's monumentjul edition of Constable's Correspondence, or of Ronald Paulson's willingness to take Hogarih os seriandly as he deserved, which led to one of the more readable and stimulating ort bistorical books to emerge for some while, albeit one written ture. This, too, was published by Yale, and the Paul Mellon Centro for Studies in British Art appears havs encouraged a large quontity of the worthwhile recent work in the orea. The Tote Gullery's foint publication of the volumes under review may wall be en encouraging portent.

A catalogue of Turner's pointings A catalogue of Turner's pointings can only be welcome. He was one of the most prolific of English artists, end it is a relief to find that the essential job of sorting his production has begun, elimough the daunting tesk of estalogulug work in media other then oil paint remains. The Puintings of J. M. W. Turner is in two volumes, one of Turner is in two volumes, oue of text and one of plates. In o sanse the letter is reminiscent of the 1975 bicentenery exhibition, a show per-beps remembered by many for the exceptional physical stamine called for in completing the course. Despite wearying its visitors, thet exhibition showed conclusively bow vital it was to see together a representative selection from Turner's entire our-pur. Corteinly one can do something of the sort et the Tate, but the keepers there would be the lost to claim that their collections contained every unportant painting Turner made. bicentenery exhibition, a show per-

The volume of plates acts us o kind of surrogats exhibition of oil his oil paintings. There are some \$50 plates, ebout half of which are in colour, and just glancing through them shows the ways in which Turnor's art developed and how veried

so planes, shout half of refect are in colour, and just glanding through them shows the ways in which Tumber of the subject of the planes in the querity of these places is not unturnly of these places is not unturnly of these places is not unturnly of the planes places in the querity of these places is not unturnly of these places is not unturnly of the planes places in the contract of the planes possible to make south and the planes possible to make south the contract where opinions have research to their originals, but there are seen to be contracted to their originals, but there are seen of the contracted to the con

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on of this must baffling of painters. The 1960s saw an attempt to rectify this. Jack Lindsay's Timber (1966) was an least an original approach to the biography and had the great virtue of letting the artist speuk in his own words. Yet the euthor sometimes took a Freudian reading of paintings to a degree anconvincing to the sceptic, and this book suffered from a dearth of pletes: indeed it tended not to indulgo in much risso analysis of the pictures.

1812) is about the faliure of oxion being inevitable. Doss this de is with the nbandsoment of an English georgic fandscope, one which is georgic fandscope, one which is to with the renewal of a Collect that the speak in this native scenes thems in this later 1810s extends the planting to the sceptic, and the book suffered from a dearth of pletes: indeed it tended not to indulgo in much risso analysis of the pletures.

inconvincing to the sceptic, and this book suffered from a dearth of pletes: indeed it tended not to indulgo in much rioso analysis of the pictures.

This was not so with Lewrence Gowing's Turner: Inagination and Reality, also of 1966, where the subject was Turner's painting as painting. Although at times it may have appeared to heve been considering the works too much from a twentbeth-century etsadpoint this was an important, if short text which did not shy from confronting the problems of the late Turner, these texts were followed in 1969 by John Cage's brilliant Colour in Turner: Poetry and Truth, a series of studies restricted to the one aspect of Turner's work, which was, in certain whys, o break through. It gave s coherent notion of the subject, and formal analysis subsisting with mistorical sponsach allowed it to be explored in some depth.

Furthermore, the nuther was uniformal analysis subsisting with mistorical sponsach allowed it to be explored in some depth.

Furthermore, the nuther was uniformed in unitist who demands to be opprecioted on aesthetic grounds.

Sinco then there has been no mojor critical or biographical occounit uf the paintings of the like to oppreach them from the population of subject matter. Yet Turner's suppose that his later habit of propens the field of the varnishing days before a suppose that his later habit of propens the varnishing days before the varnishing days be

nave boen either in the form in particles, or os essays preceding ex-hibition entalogues. Certainly they hove been valuable, but they have olso been abort. Of the work yet to be published John Gage's edition of Turner's lotters promises to hold

<u>在10年,企業企業。</u>50萬年,以第25。

hibition chalogues. Certainly they have olso been short. Of the work yet to be published John Guge's edition of Turner's lotter's promises to hold thu greatest Interest.

Su this catologue should le the sturing-point for new work on Turner. Merely browsing through it provokes speculoilon. For example, it seems that one consequence of Turner's oil-sketching of urunnil 1806-7 on the Thames was a series of genrgle polintings of its land-scapes. Walton Bridges (ent 63, 1807?) shows the midsummer scene of sheep-dipping noturolly incorpured due thu foreground; Ploughing 19 Thomies near Slongh (eat 89, exh 1809) has the silhouette of Windsor Custle looming over list of this is debated wa are left.

89, exh 1809) has the silhouette of Windsor Castlo looming over his ogriculturol coufusion.

In these cases it is, for various reasons, tempting to consider their iconography ogainst Thomson's Seasons and to see these and similar paintings es showing a happy peasontry gladly giving their labour in a Britannio whera peoce and plonty reign. This is surely pussible. Turner not only knew his Thomson but elso st precisely this time was paying tribute both to him and Pope in canvases where it is instructive to note the development of one moulf. The shepherds contemplating the ruins of Pope's Villo ot a Twickenhout (cat 72, exh 1808) appear consciously to recell Poussin's Arcodian Shepherde, end there is a similar group in the large and extraordinarily beautiful Thomeon's Asolian Horp (cot 86, exh 1809). We learn from the entries in the catologue thet the elegiec and pastoral associations of Pope's Villa were not only intentional, but recognized by contemporaries to exist. So if Turner understood Poussin's Lonography as etating that people died but Arcadie remained, perhaps he is attaching it to Thomson end Pope to show how the paradise they in the side of photogrephs. That this gas he is attaching it to Thomson end Pope to show how the paradise they in the product of the product of the reach of the product of the reach of the paradise they in the catologue that the observable of the product of the reach of the product of the reach of the product of the plant of the pl

BUULS

Walking on the spot

G. K. Chesterton: The Critical Judgments (1900-37) ediled by D. J. Conlon Antwerp Studies in English Litera-

10re, £9.00 ISBN 84 399 5927 3

This bland and bloated academic relume surprised me less by its appearing at all. It is simply a generous selection of contemporary reviews of G. K. Chesterton's books reviews of G. K. Chesterton's books written when they first come out, and it is closely undelled on the Crideal Heritage series. Editorial presence is continued to identifying identifiable contributors and newspapers. Of crurse there is no heritage of criticism on Chesterton, and on the face of it he is a rather odd target for institutionalisation in the form of a book like his. For while he has ceosed to be a "popular" writer he has nar been promoted into n "classic" enc.

Nevertheless the SSO pages of teviews selected here—only "the lip of the leberg" warms the editor—confirm how pupular he was. Remembered now os the creator of Father Brown and The Man Who Was Thursday, the lamensely prolific and versuitie journolist commemorated in these pages has been largely forgotten—an Edwardian museum-piece, a bygone expert in dogmstic whimasy. The hooks releved here include paetry books, usays, towels, bingraphies, plays, works of Christian polemic and literary and art criticism, as well as detective stories and an annobius detective stories und an natobiu-

The reviews of the first books of the century of th

Wise, but only in patches

The Novek of George Kilot against the horizontal production of the property of the production of the product of

Folk lore

Inevitably, such discussions accursory, but they do much to he show the changing contours of the course of time, and to pint out the attractures, seen increasingly to be complex ones, that have governed writing either from the people of the one hand, or for them—something different—on the other. The numerous illustrations, well-produced and varied (and some of them truly delightful) help here.

means of the Gorney Ellicia the reliable of the property of the control of the state process which the control of the state process the state proce

he seems at times to imply the this ineritably led them to left, an imperialistic course in reli-nifurs from the mid-1890s.

At this point, it seems as if his has not carried his companies approach far enough Whites

interpretation one adopts of a Spanish-American War and is to

Spanish-Autorican War and its formath tand Iriye's soggestion had Mrkinley's necision to go to arrows crucially affected by create Asla is not personasive), in compassion with the situation in Europe at the time the most remainly feature of United States diplomatin the years 1900-14 was sail at

in the years 1900-14 was still the

in the years 1900-14 was sold to limited nature of the demands made upon either the made of the demands of the demands of the demands of the demands of the comparison pawer, but the chapter of America's question in the wild letween 1865 and 1914 was sold much more a matter of weight than

Name the less, despite a key fuctoud errors (McKinley was need a scenator unit Beveridge an edwa, this is a stimulating book with a useful and numeral selection of

reference in the text would have been welcome. It is oil the more

the represented, therefore, that it is not printed in the convented manner tapart, oddly, from the preface I, but produced affect from mijustified typescript.

Specialist

30072

Extra-mural activities

Revolutionary Law and Order:
Politics and social change in the USSR
USSR
by Peter II. Juvlier
Free Press, £9.50
ISIN 0 02 816800 7 Sunct in Soviet Society ly James Riordan Cambridge University Press, £10.00 ISBN 0-521-21284-7

Soviet playing fields, unlike the Jabour camps, enjoy e full shara of offirial publicity; indeed, the feuts ıl Soviat sportsmen are an integral

part in sporting activities. There is no doubt about his grosp of the havic subject-matter. He begins by showing that

That Russlans are as shifted as other human beings seems to me to be beyond any reasonable doubt. Their indulgence, like ours, varies from him peceadillo to intrageous breach of public order. The Bulsheviks' refaroting mission among them, may spectucular improvement: In luct, there hordly seems to have produced any spectucular improvement: In luct, there hordly seems to have heem any lumprorement on oll.

The story of Sovlet criminality, and the official response to it, is the subject of Dr Juviler's bould supproach is basically chronological; he describes how the Botsheviks how the Botsheviks booke with Tsarist institutions, and matchine according to their own lights. Official crlose statistics, still published in the 1920s, show that hy the end of the decade there were any of the police and association of the country. Its probabilished in the 1920s, show that hy the end of the decade there were any of the police and association in the subject of the first grain in the fourth Olympic movement, and participal theoret the revolution; Russia was a faunding member of the modern Olympic movement, and participal theoret the revolution; Russia was a faunding member of the modern Olympic movement, and participal the fourth Olympic movement,

they hordly seems to have been any improvement as all any improvement as all and any any improvement as all and any any improvement as all any in the content of the Cheks, and designed the official exposuse to it. It is usually to the content of the property of the content of the content of the property of the content o

American diplomacy

From Notboullism to Internationalism: US Foreign Policy to 1914 be Akira Iriye Routledge & Kegan Paul, £6,50 ISBN 0-7100-8144-7

Professor Akira Iriye's bank differs slightly from most of its predecessors in the series, Foreign Policies of the tiren Powers. The mother has eschewed the usual diplomatic norrative in order to write an "interpretative sorvey" of United States foreign policy. He has deliberately rhosen some less well-known episodes—often drawn from the field in which he has achieved colinence, Japanese-American relaeninence, Japanese-American rela-tions—as illustrations of what he regards as lopporton choracteristics of the American approach to world affoirs. This work is clearly designed to serve os a supplement to, rather than a substitute fur, exist-

serve as a sulutary confirmation of mass. Americans shared what Professor friye calls "the complexity of these various factors as superiority of Western diviliant determinants of fareign policy".

he the remainder of the binds, lrive traces these aspects of American foreign relations in the period 1865-1914, and argues that period 1865-1914, and argues that these years saw great rhanges in the scape and character of US policy. He takes issue with some recent arcators by emphasizing, surely rightly, the limited and traditional rharacter of American dighomocy before the 1890s. His argument here gains force from his transcending of the parochialism of much Aoterican historiography. By runsidering US pulicy has a international rontext, he effectively contrasts its passivity with the contemporary octivity of Europeon powers, and he shows how even some apparently ossertive geatures, oa in the Boltionore dispute with Chile in 1891, were essentially responses to the intransigence of other countries.

By the early twenticth century.

John Thompson

Mervyn Matthews A drawing of a huntmlugbird, from Lesson's Oiseaux-Mouches (1831); one of many illustrations in Zoelogkal illustration by David Knight, published by Wm Dowson at £10.00.

The road no longer leads to Moscow

C₂

8

Eurocommunism and the State by Santiago Carrillo

Lawrence & Wahert, ESS and

Lawrence & Wahert, ESS and

Tile is a book which is osteasibly adoaling when ne of the maderi, pathanient or blorms of Marxist theory bicros of Marxist theory is may be to be an indiverse playmar it may be to the the critique of the moderi, pathanient, or bourgeois state. However, this last port of pound political theory, it may be to be an indiverse playmar it may be to be an individual theory, in the individual theory, in the individual theory in the international playmar in the individual theory in t

At random

Computational Simulation by S. Yakowitz Addison-Wesley Prehability

by S. Yakowita Addison-Wesley, £18.00 and £10.00 ISBN 0 201 08892 4 and 08893 2 The Complexity of Computational froblem-solving golted by R. Amlerssen and R. Prentire-Hall, E4.70 ISBN 0 7022 1213 X

Since science finals Itself anable to Since science that itself intable to confine its ultentious to deterministed phenomena, the question naturally arises, given the immense and growing asciuluess of the digital computer—a highly deterministic machine—how to apply computation recognition processes. to random processes. Now it is quite easy to program

Now it is quite easy to program a computer to colculate a sequence of numbers which appear to the casual observer to be a random sequence. Indeed, these "pseudotandom numbers" are judged by many standom sunistical tests to be random sequences. (For example, there is you Neumann's middle-source generator, which neuternice. square generator, which generates o pseudo-random sequence of threefigure onothers by starting with any three-ligure onunber, squoring it and selecting either the middle three dights or the middle three of 10 dues the square, whichever makes imes the square, whichever makes some, and repeating.) Such devices can lead to highly non-random behaviour; for example, in the corresponding middle-square sequence for two-figure numbers, which can be worked out on the back of an envelope, 84 will be fullowed by 05 and the back of an envelope, 84 will be fullowed by 05 and that by 25 and then 25 will be generated rontinuously.

More generally, may such program will cocla; for since there is only a finite number of answers at any one stage, there is eventually stany one stage, there is eventually a repetition, and after that the same numbers will repeat. (Of course in is possible to defer the reckaning, but there seems to be a theorem that the program for a random sequence has to be essentially as long as the sequence itself.) Name the less there are convenient pseudo-random penerators that pass standard statistical treas pretty well, and which prove useful for many engineering applications.

According an Valencia the

According in Yakowing the second part of their actions is the important part, income chircle Tistuitial theory "is not equipped to test hypotheses containing muttendom processes". At lest, it can only signal the presence of very bad pseudo-random generators. It is therefore useful to study in detail various generators, and their uses

The second bnok is the edited proteedings of a sominar at the Australian National University in 1974,

Catalogue and classify

Catalo

Ring systems

Cambridge University Press, £19.50 | molation. ISBN 0 521 20519 0

lieternaronalic Nitrogen Continuets: the Azoles hy K. Schofleld, M. R. Grimmett and H. It. T. Keene Combiding Mark Processing Continuets and Even predicted, by extra-unlation.

Futrgraf Equations by H. L. Molseiwitselt Langman, £1.93 -160 0-562 19255

important part, incrance chirchal statutical theory "is not equipped in test bypotheese containing manner tendom processes." At lest, it can only signal the presente of very bad pseudo-random generators. It is therefore useful to study in detail various generators, and their uses in simulating particular probability distributions. This occupies about one-third of the hook; and the tesults are then used to simulate gambling, random walks and gauther's ruin situations (including applications in insurance and inventory control).

It is very instructive to see the graphical displays of the simulated processes, and later sections deal with Brownlan minim and with Monte Carlo integration. The hook fills a gap in the literature very satisfactorily, and will serve as a text for postgraduate or eren under-graduate courses in simulation, as well as boing useful to research workers who have to use random.

The second brook is the edited protected in the properties of the course of the processes of solving the usual typa of Fredience of the course of the course of the processes. The processes in simulation, as well as boing useful to research workers who have to use random methods.

tions in one variable. The main technique used employs integral transforms, and the emphasis is very much on fludiog spacific solutions rather than general theory. These sections ore followed by e relatively short but useful discussion of the multidineuslonal situotion and in particular the Green's function method of tackling the classical Dicichiet problem. In the second helf of the book the style changes with an introduction to the theory of Hilbert spares and bounded operators. The treatment is self-contained but the material is elfactively related to the corlier more heunistic methods.

There are a reasonable number of problems at the end of each chapter but it is a pity that there is not more indication in the text of the way in which integrol equations might be applied to sparific physical problems. In general this is an unpretentious book which is very good value for money. It would form an excellent text on which to base courses for physics or mathematics undergraduates.

C. J. Isham

Calculus

Physical Chemistry by V. Fried, U. Idulis and R. F. tlameta Callier Macmillan, £7.75 ISUN 0-02-979380-7 The Absolute tilfierential Calculus

by K. Scherladd, R. Grimmet, and H. H. T. Keene
Cambridge University Press, £19.50

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Renders w

he sats up the theory is quite modern. Half tha original Italian text is devoted to fundomentuals; beginning with functional detarminants end motrices, their systems of total differentiel equotiona integrability conditions) and complete systems of linear partial differential aquations. The chapter on tensors introduces them in multilinear forms, for the group-theoretical formulation of the "principle of reintivity" is due to Hermann Wayl several years later. A gredient is singled out as a typical covariant voctor end titls chapter concludas with Levi-Clylm's viaw of the "main problem", by csiculating the rather complicated trensformation of the accound derivative of e scalar: the problem is to evoid the complications by replacing "these therivatives by linear combinations of them with the clements of the tensor". But before this problem is tackled a fifth chapter deels with geomatrical ideas—surfeces, perallelism and Christoffel's symbols.

The second half of the original

tions.

The present book has obvious merit but it might not be suitable for mony of the students who are raquired to take courses in physical chemistry in order to obtoin n tynrking knowledge and appreciation of the subject for application in other fields. It could, however, he very useful for specialists (even those teaching) who have the time and will to go back and look again at various topics.

John Bevington

This week's Reviewers

Jdlin Bovington, professor of chemistry at the University of Lon-caster, is enthor of Radicol Poly-merisation;

Hugh Houghton lectures in English et the University of York; John Holloway is e fallow of Queens College Cambridge and professor of modern English ;

The second half of the original text is then oble to launch straight lato covariant differentiation and curvatura; this treatment has been closely followed in a number of leter texts on differential geometry, though a final chapter on congruences (especially linear congruences in Euclidean three-space) is much less familiar. The added chapters on relativity begin in an unusual C. W. Klimister is professor of mainemotics et Kings College Lon-

The second half of the original

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PAPUA NEW GUINEA University of Technology DEPARTMENT OF ACCOUNTABLY LECTURER/ SENIOR LECTURER IN

DATA PROCESSING Applications are toyled for the above-mentioned pool to teach community programming and systems within a new computer studies extroution grabilisted in 1974. The tropulages to to tought me 3 Old and a REPORT-WRITING Language. The application minor for which the students my being prepared are multily Covernments and constructed recogniting and statistics.

commercial incounting one ptatistics.

Approximately two-fifths of each student's course work will be unoutpriet studies while the behave of his work will be devoted to
supportive ambients while the behave of his work will be devoted to
supportive ambients while the matternatics, accounting, statistics and
commercial practice. The offer of the course is to produce graduages
who will go directly into employment as programmers.

Equipment on site includes an 162-290 with viders terminals, punched
and paper tape upon, magnetic dose and thre printer, and p disc
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Salory snage theorems (No.13) to the mainta. Senior Jecturet
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conquirtes can be made.

Applications to describe the forcested in all englished.

Further information will be forwarded to att application. Applications are required by 30 January, 1978, and should be seed in the Registery. The Papea New Guisea University of Technology, 15.0, flow 795, Luc, Papea New Guisea, A copy of the application should be sent to the Association of Company and the Universities (Apple, 1, 36 Gurdee Supers, Londan WCIII 6th, from whom conditions of applications

UNIVERSITY COLLEGE GALWAY

PROFESSORSHIP OF ANCIENT CLASSICS PROFESSORSHIP OF APPLIED GEOPHYSICS PROFESSORSHIP OF MODERN ENGLISH LECTURESHIP IN LAW

Applications are invited for the above full-time statutory

Salary Scales: Projectorship, 28,552 by (8) to £10,078. Leotureship, £6,394 by (8) to £6,491.

Marriage and family allowances are also payable. Closing date for redaint of applications for Professorahips of Angient Classics and Moderning English and Leolureship in Low January 25, 1978: Closing date for Professorahip of Applied Geophysics February 1: 1978. Further Information may be children from the Becomber

. UNITED STATES UNIVERSITY OF OKLAHOMA DEPARTMENT OF GEOGRAPHY

Applications are incited for the post of VISTING ASSISTANT of ABSIGIANTE PROFESSOR from August, 1978, or, soon after the May, 1979, Solary, rank, and aphelling responsibilities depanded from qualifications. 19,2), required. Otherway approximation for person years of the solar consideration who also have a technique which the interest of the person of t

UNIVERSITY OF ILLINOIS OPEN POSITION

IN EDUCATION

Associate of Full Professor in the College at Education. The spacific floid of specialization is less impariant than an engoing record of profuctive acholstable and praminence in an applicant area of interest. Evidence of ability to work with advanced graduate students is also required.

Rank will be provided in the mest appropriate of the College's departments: Administration, Higher and Continuing Education; Security and Entry Childhood Education; Educational Policy Studies, Elementary and Entry Childhood Education; Educational Policy Studies, can Vocational and Technical Education; Educational indicate which rispariness] they think most appropriate is their interests.

Apacintarient to my depailment requires responsibility in teaching, requires responsibility in teaching, requires responsibility in teaching, research, and service, Dulles will be established in line with the successful policinity apacient, treining, and interests; sestement might else be made to one of the Callege's research units. Salmy will be competitive depanding on qualifications. The liniversity of illinois is an efficiently action, equal apportunity

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Positian opan August 21, 1978. Applicants nuel have an cernal doctorate of levels advisent; should indicate that resears for applying mines submit a complete resume of neademic work [training, publications, professional organization setivities, teaching sveltations, honeurs, etc.); must submit as or two resent publications; and must mrange for us is accelve [tree letters of teconimendation from preminent figures in their size(s) at experies. Osedline for accepts at all metariols; therein, 1, 1878, Address; Professor Jac R. Gurnell, Chairperson, General Search Committee, 110 Education Building, University of Illinois, Urbana, Illinois 61801, USA.

University of Oxford Hertford College

Bursar

The bursar is responsible for the non-academic management of the college. If suitably qualified he/she will be an Official Fellow and will receive the appropriate salary on the University Lecturer scale (up to £7,087) with allowances. Enquiries and applications by 27th January, 1978, in the Principal.

The OFPARTMENT of CLASSICS Invites applications for its nostion of SESSIONAL LECTURENT of SESSIONAL LECTURENT of the part of t UNIVERSITY OF MALAWI

LECTURER IN PHYSICS

lenable na asa na possible. Applicants should have at least a good handum dagree in Physics or Etychonics. Profesience with a given to condidates with a linguist degree and whose research interest is in the field of Physics negteries, applied aposistics, geter snegtoy or electronics. Teaching, roseersh and industried experience would also be an adventige, The appointes will be expected to teach at afficients. Governmen) may supplement astery in range C1,450 to C3,864 p a libraring; for married appointes and E2,164 to C2,585 p s. Isterling; for single appointes troubwed monutally and normas Irevined moutility and normally froe of nit text end stoylde children a education allowences and holidry wat pesseggs. If no Brillish Government supplementation caulishe, University will pay K720 ip s.: toxebte in Milaw. Fatility propages, various allowences; blannial avarsass leave graisity, hashing Qualified oppolicialions live copies) should be sent eir rest by Járisary 23. 1978. together with our riculum vites and naming these refered to Registers. University of Malawi. Aprilicanis resident in U.K. should also sond one copy to internal country of the control of t

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THE UNIVERSITY OF JUBA SUDAN

llowing posts in the Callege o

PROFESSOR / READER SENIOR LECTURER / LECTURER / LECTURER AND ECONOMIC OSOGRAPHY.

PROPESSOR / READER / SENIOR LECTURER / LEC-TURER IN ACCOUNTING.

Salery scales: Professor E84,135 ps; Raodor £32,825 ps; Sanlar Lacturer £82,405 to £33,000 ps; Lacturer £82,600 to £52,400 ps; Lacturer £81,600 to £52,803 ps (etarling) for married appeint.co or £1,410 to £1,610 ps (slering) for aingle aspaintees (raviovad aunually end asmally tree of ell lex) end provide childran a educellan arillawance end holidey vielt pessegas. Femfity passages; various ellewance i annuel sversee leeves allevy acclase and telas of supplementalion ere under raview. Detelled epplisations (two acpiementalion ere under raview. Detelled epplisations (two acpiementalion ere under raview. Detelled epplisations (two acpies) including ourriculum vitas end asmaling three referees attouted be sont by airmali by denuary 20. 1978, te the Secrotary Ossarol. University of Jubs, PO Bes 82, Jubet Sudan. Applicants resident in UK strout eliso send ane capy to inter-University Coundil, 80/91 Totenhem Court Rpad. Loador WIP DOT. Further detelle gan deres.

THE UNIVERSITY OF THE WEST INDIES

TRINIDAD OEPARTI/ENT OF LIVESTOOK SCIENCE, FACULTY OF AGRICULTURE, Proferance with the gives in applicants helding it first degree in animal actence or veterinary medicing with pushing and continuous animal physiology, interest and experience in the obysiology of derry celliu reproductant (infaultity end/or adentalism of runing his to hat bomit dimates would be an advantage. The npopulational will be for law years with the posinity of erleusion or a lotal of live years. Sainry cales (107-7-2): Schlor Lecturor 17826-227 to 17534-017 ye. Lecturor 17826-227 to 17534-017 ye. Lecturor 17818-400 to 17819-074 pn 151 assiling enjoyen 1754-39.) FSSU. Unfunitately accommissed on, it avoidable, at 19 pai cent or furnished et 12) per sent, or housing ellowence of 20 per cent of ponsionable sainry. Up is live till economy passages as eppaintment and on normal termination. Bludy and Travol Oreni Ostellied application noming three relates to Socretery, LWI. St. Augustine, Tichidad. Ostellin of post cent jo oil applicants.

KENYATTA UNIVERSITY COLLEGE KENYA

Associate Professor CITEMISTRY OFFARTMENT CHEMISTRY OFTARIMENT
Candidates must layer in Ph.D. in
Chemistry and considerable expenence of University teaching at
least pt Seulor Jecturer kiel.
Also required in ovidence of
successful tosparch experience in
cluding the supervision of polgraduate students. Applicants
should also have had some involvenient in the trailing of
secondary school teachers, Preference will be given to those
who are qualified in one of the
streak of Physical Chemistry,

Associate Professor PHYSICS OFFARTMENT

pala in all academic activated of the Collego.

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CARDIFF COLLEGE DEPARTMENT OF ELECTIONS LINE ENGINEERING MINIMIPHOLIPS AND APPLICATIONS

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DF NATURAL RRSOURCES AND ENVIRONMENTAL BYUDIES: (1) PROFESSOR / RBADER / RENIDR LECTURER / LECTURER IN ANIMAL PRODUCTION. (2) PROFESSOR / READER / SENIDR LECTURER / LECTURER IN FISHERIES. (3) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN WILDLIFE. (4) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN FORESTRY. (5) PROFESSOR / RGADER / SENIOR LECTURER / LECTURER IN FORESTRY. (6) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN GOLD PROOUCTION. (7) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN SOIL CNEMISTRY. (7) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN SENERAL SIOLOOY (SOIONIS!). (8) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN JENERAL SIOLOOY (SOIONIS!). (8) PROFESSOR / READER / SENIOR LECTURER / LECTURER IN JETTURER / LECTURER JETURER / LECTURER JETTURER / LECTURER JETTURER / LECTURER JET

THE UNIVERSITY

OF JUBA

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| PROPESSOR / READER / PROPESSOR / REACHIND morthods | Professor / READER / PROPESSOR / READER / LECTURER IN PSYCHOLOGIST).

| PROPESSOR / READER / LECTURER IN PSYCHOLOGICAL TESTING AND MEASURE-MENT | Wifth a knowledge of manufaction |

Universities continued

THE UNIVERSITY

OF JUBA

SUDAN

MARAGEMENT FOR RURAL
AREAS.

15) PROFESSOR / READER /
SENIOR LECTURER / LECTURSR IN EDUCATION—
BOCIAL AND PSYCHOLORICAL OCYPLOPILENT
OF YOUTH.

17) PROFESSOR / READED /
SENIOR LECTUREN / LECTURER IN ECONOMICS OF
EDUCATION.

Bolory scalo / Professor
CS4 135 p.3. Reader (53,025 ps.
Samuer Loring LS2,466 to
E33 000 ps. Loctural (51,000 to
E32,400 ps. Loctural (51,000 to
E32,500 ps.
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SENIOR LECTURER / LECTURER / LECTURER IN PHYSICS.

Solary scales: Professor CS4.135 pp. Rander CS3.625 pp. Senior Locturer CS3.625 pp. Senior Locturer CS3.625 pp. Senior Locturer CS3.625 pp. Senior Locturer CS3.625 pp. Senior Control CS5.635 pp. Section CS3.635 pp. Sections CS9.831 pp. CS1.035 182.-00 pu (C) eterling oquals 180.03) The British Government may supplement sularios in rampe 12.802 to 1.358 pe [ateriling] for arongined appointees or 1.410 to 1.900 pe (stepling) for arongined appointees or 1.410 to 1.900 pe (stepling) for single appointees into a stepling for single appointees into a stepling for single appointees into a stepling to the collection of a stepling to a ste

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MINIOWING PASIS IN THE DEPART-MENT OF CIVIL ENGINEER-ING: ONE BENIOR LECTURER AND TWO LECTURERS/ASSIST-

ADULT EDUCATION.

(2) PROPEBSOR / READER / SENIOR LECTURER/LECTURER/LECTURER/LECTURER/LECTURER/LECTURER IN ADULT EDUCATION — MATERIALB PREPARATION.

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ANO COMMERCE

Applications are invited for LECTURESHIP in the Octure of Lectures and Canada and Can Salary on scrip 23,333 to 28,636 tunder review! Wer amount glus U.S.S. benetits. Applications calk contost olying helatin of age, qualitications and experience, the age of the age

UNIVERSITY OF CAPE TOWN TECHNICAL

MANAGER

Applications are invited for the post of Tochnical Manager who will be responsible to the Director, institute of Oceanography.

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University research vassal,
Thomas 8, Davio, to minimin
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lactinical odvice and desistance is scientists and technical officers ougged in the gaulogical, biological, birstand, chemical and other nell-villes within the institute;

—initiatives in Sesion, sensituation and neighboraches ul equipment required to setting the gaseron in he merine onvironment.

onvironnent.

Candidatas should be nonspetcht in machanical, electrical of electrical of electrical of electronic tocknology, preferably with exportence of harine applications. Above oil, the focus of the proof of

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COLLEGE KENYA

(A constituent college of University of Nutrobil OCIATE PROFESSOR

CALIFORNIA.

THE UNIVERSITY

OINECTOIL AFRICAN

Invites applications for the position of Directions of the APRICAN STUDIES CENTRE The Conter calbridged Repart the Conter calbridged Regard Direction of the Cammas are all the cammas feeling opening the cammas feeling and administrative responsibilities, accoming the sufficient feeling opening the cammas feeling opening the cammas feeling opening the cammas of cammas of the cammas of

LANGUAGES AND Applicants should hold a por graduity degree, preferably Pli or equivalent in Languages on Linguistics with extensive experence in teaching or University of the College of College of the LINGUISTICS

KENVATTA UNIVERSITY **COLLEGE** KENYA

Applications are listed for the nilowing posts in the ULLPART MENT OF BEATTHEMATIES I Senior Lecturer

Selifor Lecture!

Applicants should be holders of a life. For equivalent and must have substantial experience in teaching and research as University level. Ability and offerest to plant and securic new course programmes for both undergraduates and postgraduates and postgraduates are escapital qualifications. I sperience in teaching in a resolution teaching in a resolution will be an added adviation of will be an added adviations.

Leeturer Applicants should from a good pos-graduate degree. Perterably a dictorate, in pore or applied mathematics and or satisfies. They should how leading and research experience at University

logd, Salary scales under review); Salary scales under review); Senfor Lectorer 18,2,772-183,560 p.a. 16, etc. 13, salaring). The Delirah Coverment may supple the Belirah Coverment may supple. p.a. 108 = 11.34 sterling). The filling force from may supplement or range 13,394-44.128 p.a. (sterling) for married appearage and 12,184-12,186 p.a. (sterling) for single appeliness (teylevel animally and normally free of ill five and provide children's education allowances and holiday wist passages. Ferms of cryice include subsidised from high near including passages. Technical applications there copies an challing enriculum vitae one manual frace references to be contained in Registrar, Leib atta. Disher Hy College, P. D. Box 43644. Namon, Kenya, by 25 January 1976. Applicants resident in P.4, should also send time copy in Inter-time.

Administration

UNIVERSITY OF SENIOR ADMINISTRATIVE

ASSISTANT Application for title post att favited from graduates witching to make a Cereor in University Administration or non-graduation with entenance administration or non-graduation with entenance administration with a second condidets will be appointed faculty Secretary of the faculty of Lew bull additional or afferent duties within the University Aministration may be testigned to him ar not at some future data applicants should be free to take up the appaintment easily in 1978. 1978.
Balery soale £2,804 la £0.527
Grada 1A-under (oview) will
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Nene College Northampton

Required for April, 1978:-

School of Education & Social Science

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SENIOR LECTURER IN SOCIAL WORK

to be involved in the planning, teaching and organization of a proposed two-year CQSW course (agreed in principle by CCETSW).

The person appointed should possess a lifel degree in the Social Sciences, o professional quotification in Social work, and experience in the field.

Previous teaching experience in Social Work assontial. Preference will be given to condidate currently teaching on a COSW comes. Application forms available from the Senior Administrative Officer, Nene College. Moulton Park, Northempton NN2 7AL.

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RESEARCH

and emperchant of research projects, and hobben with astronal reconstituences.

A hyperch (Pittor) tealary range \$2.844 to \$2.491) is also reputed to assist in the stoom A proven infully to write clear and otherent research repute is an especial required by write clear and otherent research repute is an especial required by precising in the tieff of applied nodal resource. The precision appointed recours in the tieff of applied nodal resource in the second-less and experience in the use of statistical techniques which ment be refused by January 26, 1978 to :
Personnol Section,
Equal Opportunities Commission, Overseas House, Oucy Sirsol, Mancheslet M3 1414.

Fellowships and Studentships

University of Oxford Hertford College Fellowship in Law

The College proposes to elect an Official Follow and Tutor in Law from 1st October, 1978. The Followship vill be associated with a University Lecturaship C.U.F.). Further particulars may be obtained from the Principal. The closing dote for applications is 31st January, 1978.

Colleges of Further Education

CAMBRIDGESHIRE COLLEGE OF ARTS AND

PART-TIME LECTURER IN INOURSTON

Inquired for ane term from

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Newso phone John Harris, Combridge 65271, evi. W).

LESUS COLLEGE

THE TIMES

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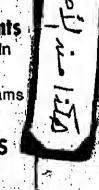
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THE TIMES Higher Education supplement

More practical training planned for barristers

A rule to prevent students from repeating in their cocational course subjects which they have already taken in their degrees has been pro-posed by the Council of Legal Edu-

cution.
The rule, which will come into effect in September, 1979, forms part of the latest proposals for the development and reform of the rule.

tional course for but students in the flux of Chort School at Lov.

The council says that it his uware that this may affect the pattern of choice of optional papers in leaves and love the lattern at choice of optional papers in leaves and love the lattern at the latter than the lattern and love the lattern and lattern a degree studies, but it believes that naiversities and polytectories will share the ninject of ensuring that practising barristers have received

tarks as possible".
The council is introducing the rule in help free degree studies from pressures that may arise from students choosing subjects to co-duce their nork at the vocational

stage of praining.

It is an attempt in ansiver academic critics who have argued that the hold of the profession over the

berreen itself, the universities and the polytechnics. "It is hoped that ther can be worked out cooperatively with the aim of ensuring a broad legal and intellectual education rather than with any restricted spirit of granting exemptions."

One exception to the proposed rule will be the law of cridence. Eridence will be taught at the rore

f the poartitioner. The new vocational stage will by greater emphasis on practical training. The concse will be extended by six treeks, and will begin in September and end in early July. The extra time will be deroted to

proctical training.

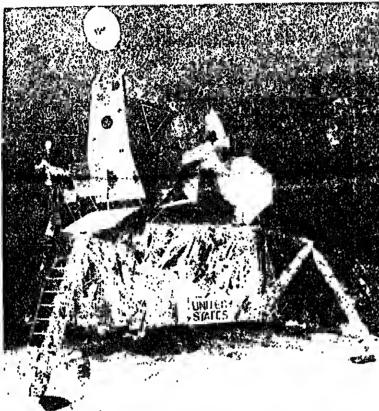
A senior post has been created at the School of Legal Education to help the development of practical exercises and the use of films.

on EEC law, the council says in still intends to convert the present hult-paper into a full paper, but does not feel that this should be in Ocinher next year.

The list of optional geners in the last of the best and the last of the la

new course will be kept under re-view, since the council wants to edsure that subjects chosen by a student will be satisfactory to the Law Society if the suident wants subjects to be studied results in a training which is too unrow.

A possible problem in identifying "repetition" is foreseen by the council, which says that difficult to transfer to the subjects chosen by a student will be satisfactory to the council, which says that difficult to transfer to the subjects chosen by an entire to the subjects chosen by the council wants to transfer to the subjects chosen by the council wants to transfer to the subjects chosen by the council wants to transfer to the subjects chosen by the council wants to the council wa



and Edwin Aldrin when they made the first manued building on the muon in 1969 is no display at the Science Museum, Landon, as part of the new major exhibition on exploration.

Keswick Hall and UEA see benefits in merger plan

A merger between Keswick Hall College of Education at Norwich and the University of East Anglia came one step neuror carlier this month.

UK 'lost as technical nation'

if postgraduate work ends

most difficult area of discussions was likely to be stuffing.

The second section of

Warning over lack of any official refugee policy

by Suc Reid

The World University Service is pressing the Government in lutro-thice a robierous policy on refugers.

financial assistance to abmost 1,000 students in the past academic year, the havest year or his history, locopo reached nearly 1200

lucions reached ugarly 12or
this growth was reflected by
more development education initia-tives on composembla new scholar
dap scheme "involving thorounds
of British students in varing funds

TUC names priority areas

A plea for the ratention of post-graduate work in the upiversities was made by Professor John Horiori, the vice-choncellor of the Uol-wersity of Solford, earlier this month.

Referring to the effect on post-graduate ectivity of the Government's decision to increase audont fees be said that Solford's postgraduate stadent numbers had already attentions students.

Supporting students.

Advanced technological rasearch in the safe on a mash of research workers distributed throughout that world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rasearch contact throughout that world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rasearch workers distributed throughout that world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rasearch or a mash of research world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rasearch or a mash of research world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rasearch or a mash of research world, loteraction world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rasearch or a mash of research world, loteraction throughout that world, loteraction with each other; if we pull out from this kind of ectivity, we shall be lost as a technological rate of the pull out from this world, loteraction world, lot

supporting students.

"If we kill off research in the university sactor, the whole of advonced technology will be affocted throughour the world", he was in macked contrast to the attitude in the United States, he added.

Eight priority areas are purpointed in a new report from the Trades Unloo Congreas calling for a fundamental shift in adult education policy.

In a statement last week the TUC said it believed the time had come to develop a coordinated policy for coatinuing education.

It urges concentration on the educational training for adults throughout their working lives; adequate opportunity or diliterate and innumerate adulta to pincent of adults conceen courses in terms of resources both opinion of adults of adults conceen courses in terms of resources both opinion of adults conceen courses in terms of resources both opinion of adults conceen courses in terms of resources both opinion of adults of adults conceen courses in terms of resources both of adults of adult

NEXT WEEK

Should the Scottish colleges b

Honorary OU degree for Sir Charles

A scientist, a conductor and are among those who will b are annoug those who will be ing honorary degrees for Open University during 15; Also among those who accepted nomination for Openersity honorary degrees a farmer BBC director genes. Charles Curran; Ms Unafounder of Dillon's Unifounder of Dillon's Unifounder of Dillon's Unifounder of Dillon's Unifounder of the Literacy Resource Agency.

The honorary graduates receive their degrees at comments of the held la various parts country during the snamer, is any degrees are awarded by their University for services university, or to the communitation.

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The arrard of honorary dog of the university goes to Pol R. V. Jones, of Alterdeen Upha who as a roung scientist & the beams being used for me purposes by German bombe ing the Second World War, The title is also nounded Charles Graves, resident con of the Royal Liverpool B monic Orchestric and associate Ale lack Ashiber, the father who has compairned rigorat suched besons for many reac ceires on honorary MA degree

The full list of recipien homorous degrees is as follows: Homorous doctorates: Sir Chille

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